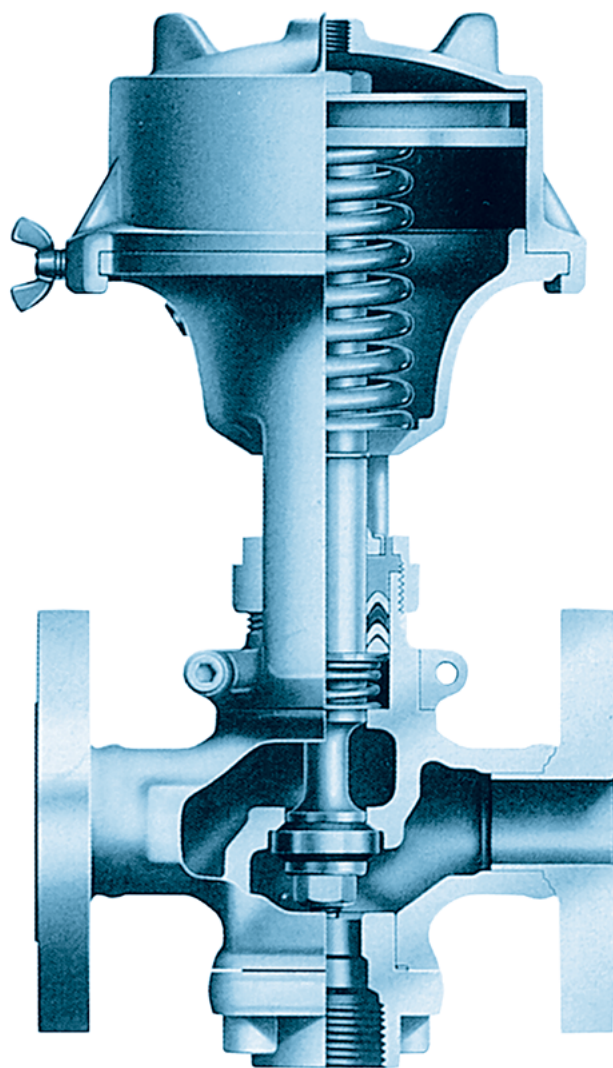




Piston Valves
Control Valves

Steam Regulators
Check Valves





TPC series Page 2



FP series Page 20



DC series Page 24



SR series Page 34



MT series Page 40



MP series Page 40



PMM series Page 46



PPM series Page 50



PDC series Page 54



PSR series Page 58



Accessories TPC,MT Page 62



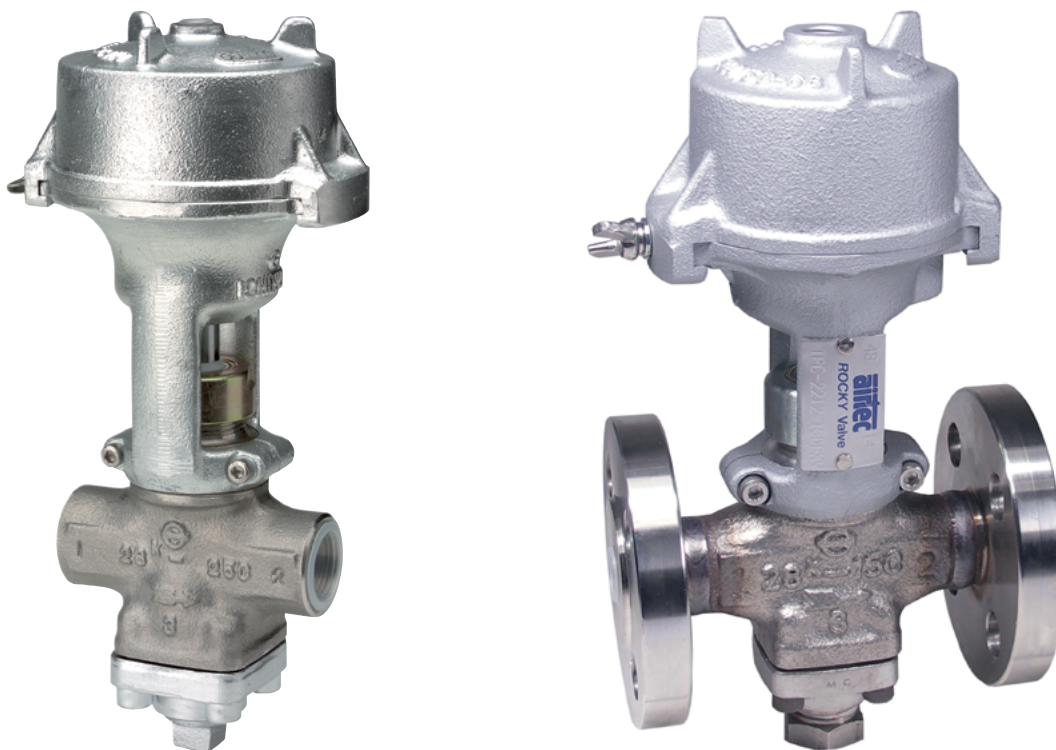
YL series Page 65



HE series Page 67



For over 30 years, AIRTEC has been the trusted supplier and service company for ROCKY™ valves. Over this time the brand has become the preferred choice in Tire manufacturing facilities worldwide for controlling Steam, Nitrogen and hot and cold water. Modern precision manufacturing methods and tight quality control along with selection of only the very best materials guarantee ROCKY™ valves to perform in the harshest conditions. The combination of sealing materials provides a bubble tight seal which is critical to the overall performance and reliability. TPC valves and accessories were primarily developed for the rationalization and automation of processes used in the tire, plastic and rubber manufacturing industries but are suitable for most applications requiring reliable on/off control of Steam, Nitrogen and Hot or Cold water. Put us to the test!



Key features

- Stainless steel body, seats, stem and flanges
- Teflon® piston ring
- Carbon Teflon® disc rings
- Teflon® and Carbon Teflon® gland packings
- 2 or 3 way function by adding or removing a plug in port 3
- Normally open or normally closed function

Technical data

Operating pressure	max. 580 psi
Back pressure	max. 362 psi
Pilot pressure	36 - 51 psi
Pressure class	300
Temperature range	- 22°F to + 446°F
Connections	Thread NPT, BSPT, PT Flange ANSI, DIN, JIS
Media	Steam, nitrogen and other inert gases, hot or cold water, air

Order Code

TPC-2 *** - *** **

Series

TPC-2	Standard
TPC-4	High frequency valve
TPC-5	2/2-way valve

Version

2	2/2-way
3	3/2-way

Function

1	Normally closed (NC)
2	Normally open (NO)

Connection

1	Thread
2	Flange / thread
3	Flange

Nominal size / thread

08	8 mm	1/4"
10	10 mm	3/8"
15	15 mm	1/2"
20	20 mm	3/4"
25	25 mm	1"
32	32 mm	1 1/4"
40	40 mm	1 1/2"
50*	50 mm	-

Material gland packing

	Teflon® and Carbon Teflon®
H	Carbon Teflon® (up to + 482°F)

Material

X	Lower seat stainless steel
Y	Flange stainless steel

Type of thread lower seat

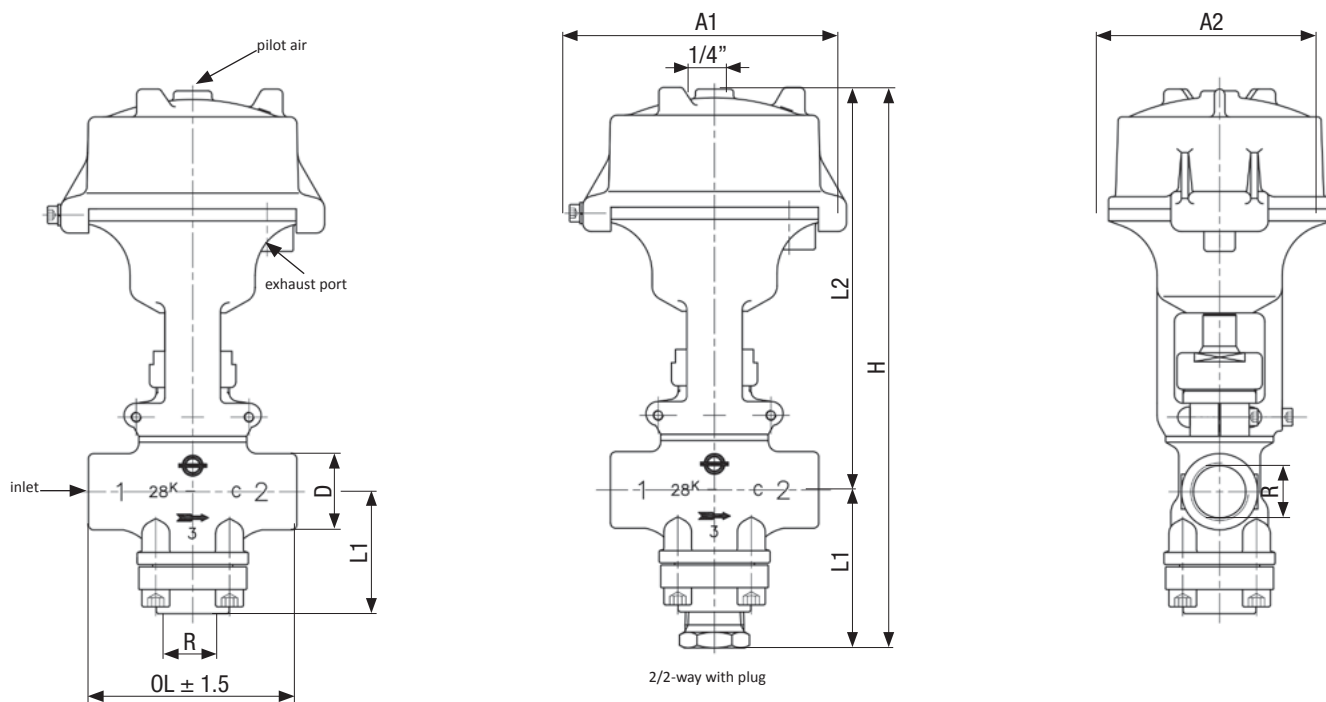
N	NPT thread
B*	BSPT thread
P*	PT thread

Type of thread / flange

N	NPT thread
B*	BSPT thread
P*	PT thread
A	ANSI flange
D*	DIN flange
J*	JIS flange

* Available on Request. Not a stock item.

1

Dimensions (mm)

TPC valve, tapped, 2/2-way, NC

Model No.	DN	Internal thread*	D	OL	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2211-08NX	8	1/4"	30	85	61.3	163.5	224.8	120	82	9.3	5.9
TPC-2211-10NX	10	3/8"	30	85	64	163.5	227.5	120	82	9.3	5.9
TPC-2211-15NX	15	1/2"	30	85	65.1	163.5	228.6	120	82	9.3	5.9
TPC-2211-20NX	20	3/4"	38	110	84.8	193	277.8	139	100	12	9.5
TPC-2211-25NX	25	1"	44	120	90.9	232	322.9	169	128	18	15.0
TPC-2211-32NX	32	1 1/4"	55	145	112.6	250	362.6	185	142	20	21.6
TPC-2211-40NX	40	1 1/2"	62	150	115.6	302	417.6	211	170	23	35.3

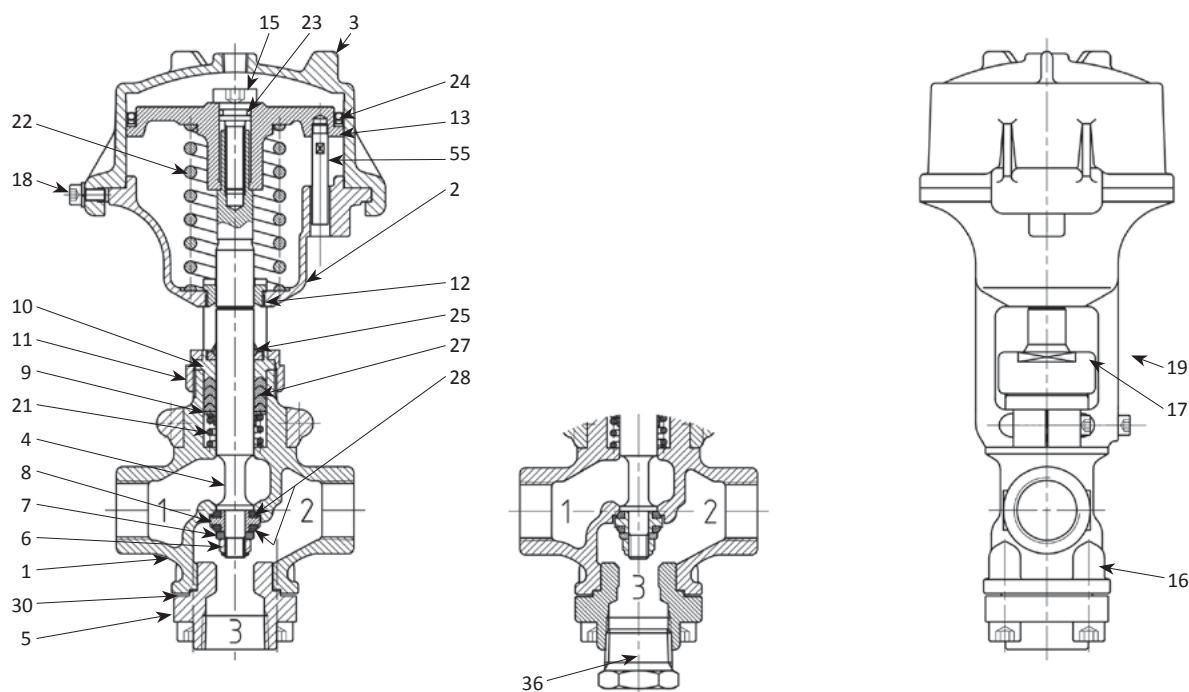
TPC valve, tapped, 3/2-way, NC

Model No.	DN	Internal thread*	D	OL	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2311-08NX	8	1/4"	30	85	48.3	163.5	211.8	120	82	9.3	5.9
TPC-2311-10NX	10	3/8"	30	85	48.3	163.5	211.8	120	82	9.3	5.9
TPC-2311-15NX	15	1/2"	30	85	48.3	163.5	211.8	120	82	9.3	5.9
TPC-2311-20NX	20	3/4"	38	110	66.3	193	259.3	139	100	12	9.5
TPC-2311-25NX	25	1"	44	120	71.3	232	303.3	169	128	18	15.0
TPC-2311-32NX	32	1 1/4"	55	145	91.3	250	341.3	185	142	20	21.6
TPC-2311-40NX	40	1 1/2"	62	150	91.3	302	393.3	211	170	23	35.3

*Thread type NPT . Valves with BSPT (Rc) according to ISO 7-1 DIN EN 10226/1 or PT thread are available on request. (The dimensions are identical to the standard NPT version.)

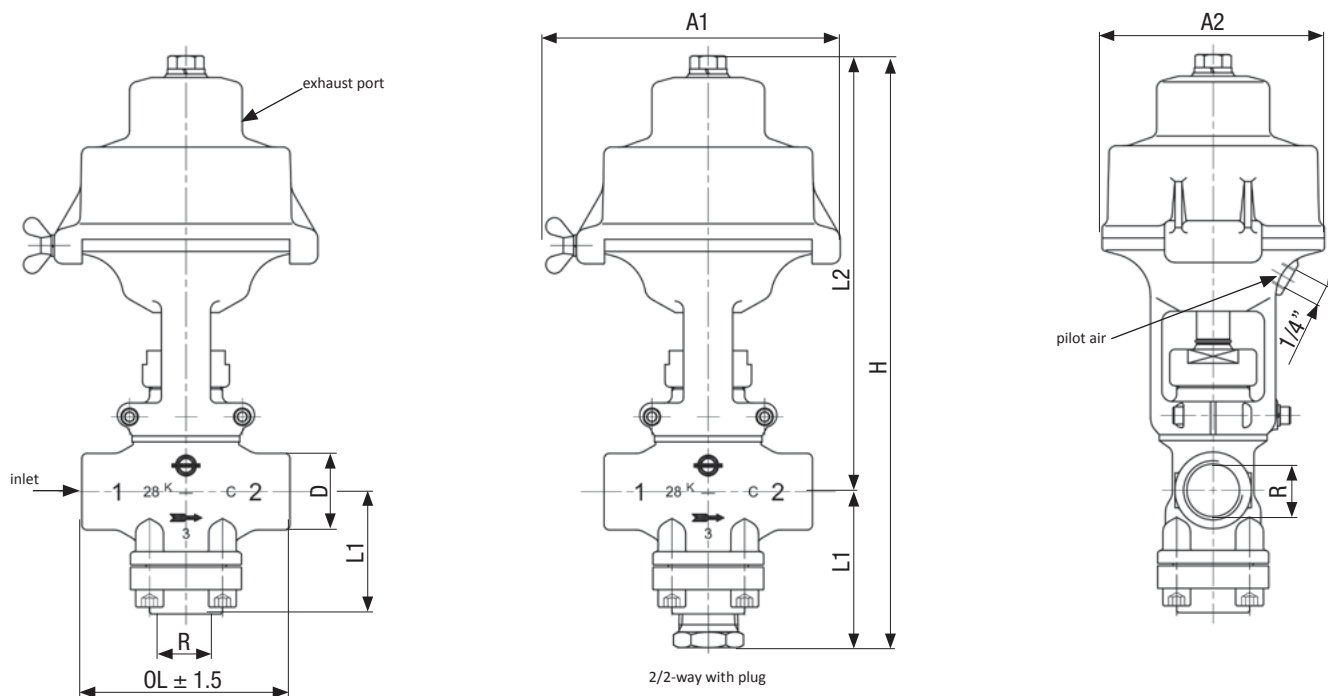
Refer to order code on page 3 .

Spare parts



No.	Name	Valve	TPC-2211-08*X TPC-2311-08*X	TPC-2211-10*X TPC-2311-10*X	TPC-2211-15*X TPC-2311-15*X	TPC-2211-20*X TPC-2311-20*X	TPC-2211-25*X TPC-2311-25*X	TPC-2211-32*X TPC-2311-32*X	TPC-2211-40*X TPC-2311-40*X
1	Body		C-21108 - 01 *	C-21110 - 01 *	C-21115 - 01 *	C-21120 - 01 *	C-21125 - 01 *	C-21132 - 01 *	C-21140 - 01 *
2	Yoke		C-21115 - 02	C-21115 - 02	C-21115 - 02	C-21120 - 02	C-21125 - 02	C-21132 - 02	C-21140 - 02
3	Cylinder		C-21115 - 03 *	C-21115 - 03 *	C-21115 - 03 *	C-21120 - 03 *	C-21125 - 03 *	C-21132 - 03 *	C-21140 - 03 *
4	Stem		C-21115 - 04	C-21115 - 04	C-21115 - 04	C-21120 - 04	C-21125 - 04	C-21132 - 04	C-21140 - 04
5	Lower seat		C-21108 - 05 *X	C-21110 - 05 *X	C-21115 - 05 *X	C-21120 - 05 *X	C-21125 - 05 *X	C-21132 - 05 *X	C-21140 - 05 *X
6	U-nut		C-21115 - 06	C-21115 - 06	C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21132 - 06	C-21140 - 06
7	Guide washer		C-21115 - 07	C-21115 - 07	C-21115 - 07	C-21120 - 07	C-21125 - 07	C-21132 - 07	C-21140 - 07
8	Disc adapter		C-21115 - 08	C-21115 - 08	C-21115 - 08	C-21120 - 08	C-21125 - 08	C-21132 - 08	C-21140 - 08
9	Ring washer		C-21115 - 09	C-21115 - 09	C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21132 - 09	C-21140 - 09
10	Gland		C-21115 - 10	C-21115 - 10	C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21132 - 10	C-21140 - 10
11	Gland nut		C-21115 - 11	C-21115 - 11	C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21132 - 11	C-21140 - 11
12	Guide bushing		C-21115 - 12	C-21115 - 12	C-21115 - 12	C-21120 - 12	C-21125 - 12	C-21132 - 12	C-21140 - 12
13	Piston		C-21115 - 13	C-21115 - 13	C-21115 - 13	C-21120 - 13	C-21125 - 13	C-21132 - 13	C-21140 - 13
15	Tension bolt		C-21115 - 15	C-21115 - 15	C-21115 - 15	C-21120 - 15	C-21125 - 15	C-21132 - 15	C-21140 - 15
16	Socket cap screw		C-21115 - 16	C-21115 - 16	C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21132 - 16	C-21140 - 16
17	Socket cap screw		C-21115 - 17	C-21115 - 17	C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21132 - 17	C-21140 - 17
18	Wing bolt		C-21115 - 18	C-21115 - 18	C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21132 - 18	C-21140 - 18
19	Socket cap screw		C-21115 - 19	C-21115 - 19	C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21132 - 19	C-21140 - 19
21	Packing spring		C-21115 - 21	C-21115 - 21	C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21132 - 21	C-21140 - 21
22	Piston Spring		C-21115 - 22	C-21115 - 22	C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21132 - 22	C-21140 - 22
23	O-ring		C-21115 - 23	C-21115 - 23	C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21132 - 23	C-21140 - 23
24	Piston ring		C-21115 - 24	C-21115 - 24	C-21115 - 24	C-21120 - 24	C-21125 - 24	C-21132 - 24	C-21140 - 24
25	Dust seal		C-21115 - 25	C-21115 - 25	C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21132 - 25	C-21140 - 25
27	Gland packing		C-21115 - 27	C-21115 - 27	C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21132 - 27	C-21140 - 27
28	Disc ring (2x)		C-21115 - 28	C-21115 - 28	C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21132 - 28	C-21140 - 28
30	Lower seat gasket		C-21115 - 30	C-21115 - 30	C-21115 - 30	C-21120 - 30	C-21125 - 30	C-21132 - 30	C-21140 - 30
36	Plug		C-21108 - 36 *X	C-21110 - 36 *X	C-21115 - 36 *X	C-21120 - 36 *X	C-21125 - 36 *X	C-21132 - 36 *X	C-21140 - 36 *X
55	Pin gauge		C-21108 - 55	C-21119 - 55	C-21115 - 55	C-21120 - 55	C-21125 - 55	C-21132 - 55	C-21140 - 55

* please complete: N = NPT thread, B = BSPT thread

Dimensions (mm)

TPC valve, tapped, 2/2-way, NO

Model No.	DN	Internal thread*	D	OL	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2221-08NX	8	1/4"	30	85	61.3	163.5	224.8	120	82	9.3	5.9
TPC-2221-10NX	10	3/8"	30	85	64	163.5	227.5	120	82	9.3	5.9
TPC-2221-15NX	15	1/2"	30	85	65.1	163.5	228.6	120	82	9.3	5.9
TPC-2221-20NX	20	3/4"	38	110	84.8	193	277.8	139	100	12	4.3
TPC-2221-25NX	25	1"	44	120	90.9	232	322.9	169	128	18	9.5
TPC-2221-40NX	40	1 1/2"	62	150	115.6	302	417.6	211	170	23	35.3

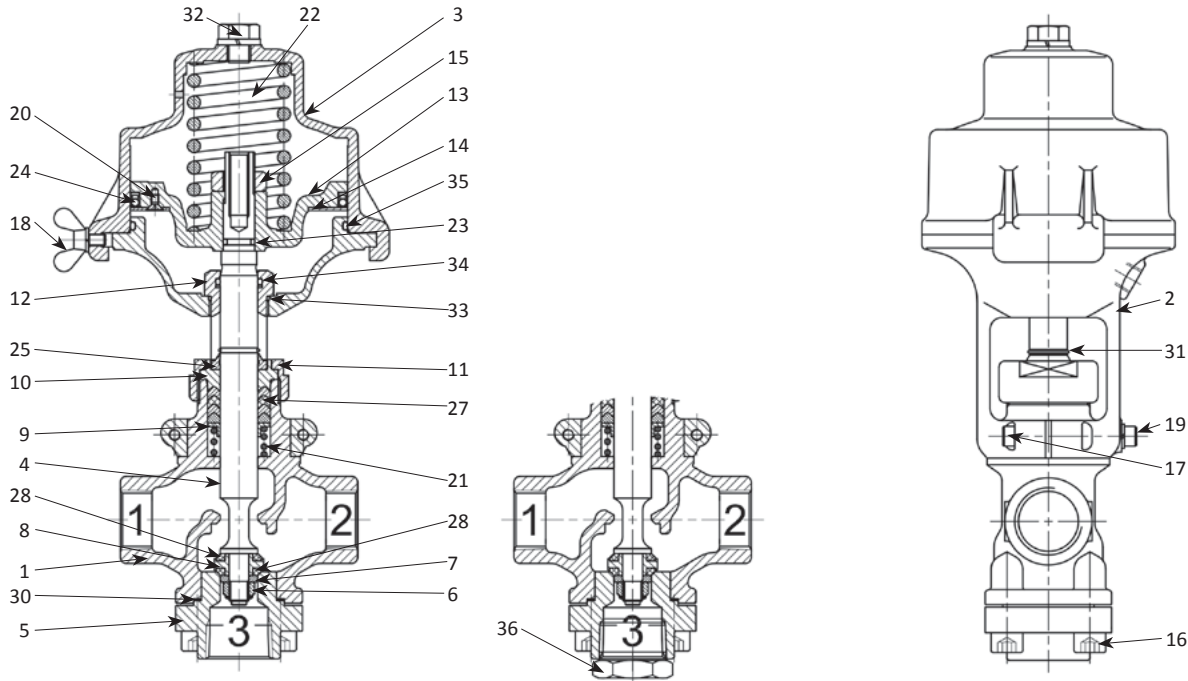
TPC valve, tapped, 3/2-way, NO

Model No.	DN	Internal thread*	D	OL	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2321-08NX	8	1/4"	30	85	48.3	163.5	211.8	120	82	9.3	5.9
TPC-2321-10NX	10	3/8"	30	85	48.3	163.5	211.8	120	82	9.3	5.9
TPC-2321-15NX	15	1/2"	30	85	48.3	163.5	211.8	120	82	9.3	5.9
TPC-2321-20NX	20	3/4"	38	110	66.3	193	259.3	139	100	12	4.3
TPC-2321-25NX	25	1"	44	120	71.3	232	303.3	169	128	18	9.5
TPC-2321-40NX	40	1 1/2"	62	150	91.3	302	393.3	211	170	23	35.3

*Thread type NPT . Valves with BSPT (Rc) according to ISO 7-1 DIN EN 10226/1 or PT thread are available on request. (The dimensions are identical to the standard NPT version.)

Refer to order code on page 3.

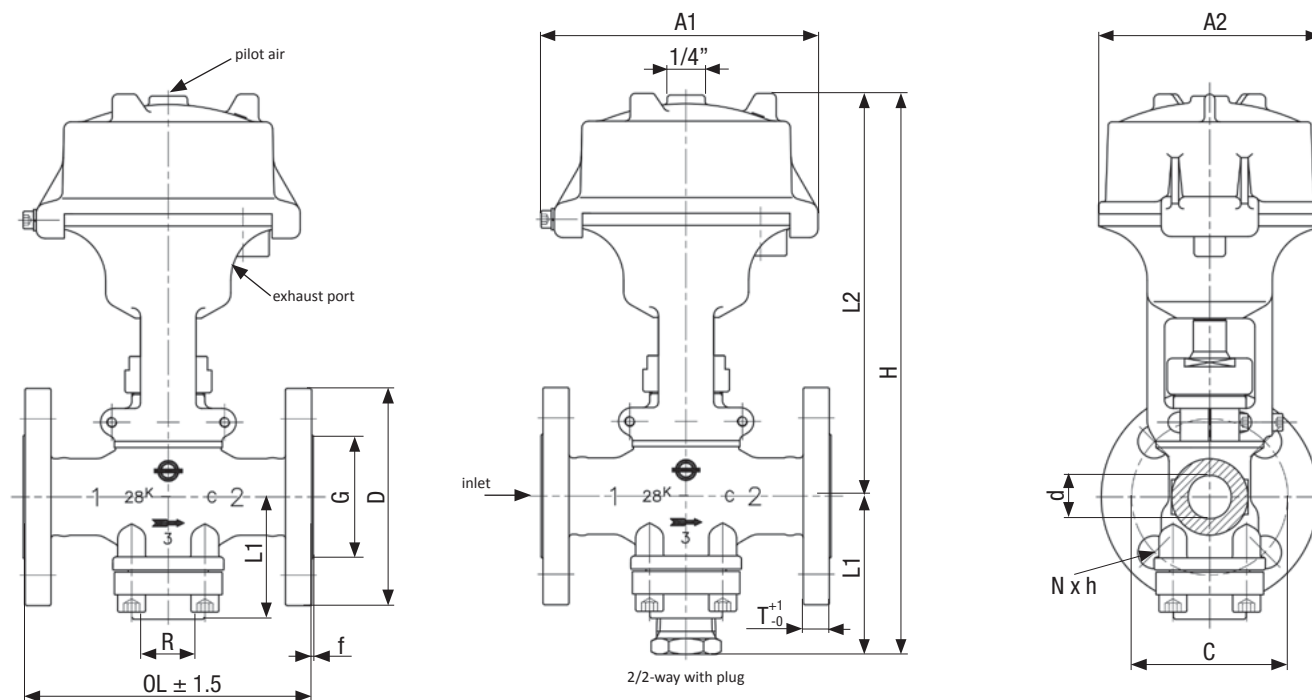
Spare parts



No.	Name	Valve	TPC-2221-08*X TPC-2321-08*X	TPC-2221-10*X TPC-2321-10*X	TPC-2221-15*X TPC-2321-15*X	TPC-2221-20*X TPC-2321-20*X	TPC-2221-25*X TPC-2321-25*X	TPC-2221-40*X TPC-2321-40*X
1	Body		C-21108 - 01 *	C-21110 - 01 *	C-21115 - 01 *	C-21120 - 01 *	C-21125 - 01 *	C-21140 - 01 *
2	Yoke		C-22115 - 02	C-22115 - 02	C-22115 - 02	C-22120 - 02	C-22125 - 02	C-22140 - 02
3	Cylinder		C-22115 - 03 *	C-22115 - 03 *	C-22115 - 03 *	C-22120 - 03 *	C-22125 - 03 *	C-22140 - 03 *
4	Stem		C-22115 - 04	C-22115 - 04	C-22115 - 04	C-22120 - 04	C-22125 - 04	C-22140 - 04
5	Lower seat		C-21108 - 05 *X	C-21110 - 05 *X	C-21115 - 05 *X	C-21120 - 05 *X	C-21125 - 05 *X	C-21140 - 05 *X
6	U-nut		C-21115 - 06	C-21115 - 06	C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21140 - 06
7	Guide washer		C-21115 - 07	C-21115 - 07	C-21115 - 07	C-21120 - 07	C-21125 - 07	C-21140 - 07
8	Disc adapter		C-21115 - 08	C-21115 - 08	C-21115 - 08	C-21120 - 08	C-21125 - 08	C-21140 - 08
9	Ring washer		C-21115 - 09	C-21115 - 09	C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21140 - 09
10	Gland		C-21115 - 10	C-21115 - 10	C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21140 - 10
11	Gland nut		C-21115 - 11	C-21115 - 11	C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21140 - 11
12	Guide bushing		C-22115 - 12	C-22115 - 12	C-22115 - 12	C-22120 - 12	C-22125 - 12	C-22140 - 12
13	Piston		C-22115 - 13	C-22115 - 13	C-22115 - 13	C-22120 - 13	C-22125 - 13	C-22140 - 13
14	Ring plate		C-21115 - 14	C-21115 - 14	C-21115 - 14	C-21120 - 14	C-21125 - 14	C-21140 - 14
15	Tension bolt		C-22115 - 15	C-22115 - 15	C-22115 - 15	C-22120 - 15	C-22125 - 15	C-22140 - 15
16	Socket cap screw		C-21115 - 16	C-21115 - 16	C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21140 - 16
17	Socket cap screw		C-21115 - 17	C-21115 - 17	C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21140 - 17
18	Wing bolt		C-21115 - 18	C-21115 - 18	C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21140 - 18
19	Socket cap screw		C-21115 - 19	C-21115 - 19	C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21140 - 19
20	Flat head screw		C-21115 - 20	C-21115 - 20	C-21115 - 20	C-21120 - 20	C-21125 - 20	C-21140 - 20
21	Packing spring		C-21115 - 21	C-21115 - 21	C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21140 - 21
22	Piston Spring		C-21115 - 22	C-21115 - 22	C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21140 - 22
23	O-ring		C-21115 - 23	C-21115 - 23	C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21140 - 23
24	Piston ring		C-21115 - 24	C-21115 - 24	C-21115 - 24	C-21120 - 24	C-21125 - 24	C-21140 - 24
25	Dust seal		C-21115 - 25	C-21115 - 25	C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21140 - 25
27	Gland packing		C-21115 - 27	C-21115 - 27	C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21140 - 27
28	Disc ring (2x)		C-21115 - 28	C-21115 - 28	C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21140 - 28
30	Lower seat gasket		C-21115 - 30	C-21115 - 30	C-21115 - 30	C-21120 - 30	C-21125 - 30	C-21140 - 30
31	Lift pin gauge		C-21115 - 31	C-21115 - 31	C-21115 - 31	C-21120 - 31	C-21125 - 31	C-21140 - 31
32	Plug		C-22115 - 32	C-22115 - 32	C-22115 - 32	C-22120 - 32	C-22125 - 32	C-22140 - 32
33	O-ring		C-22115 - 33	C-22115 - 33	C-22115 - 33	C-22120 - 33	C-22125 - 33	C-22140 - 33
34	O-ring with back up ring		C-22115 - 34	C-22115 - 34	C-22115 - 34	C-22120 - 34	C-22125 - 34	C-22140 - 34
35	O-ring		C-22115 - 35	C-22115 - 35	C-22115 - 35	C-22120 - 35	C-22125 - 35	C-22140 - 35
36	Plug		C-21108 - 36 *X	C-21110 - 36 *X	C-21115 - 36 *X	C-21120 - 36 *X	C-21125 - 36 *X	C-21140 - 36 *X

* please complete: N = NPT thread, B = BSPT thread

Dimensions (mm)



TPC valve, with flange, 2/2-way, NC

Model No.*	DN	R	d	OL (DIN)	OL (ANSI)	OL (JIS)	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2212-15ANXY	15	1/2"	13	130	140	146	65.1	163.5	228.6	120	82	9.3	9
TPC-2212-20ANXY	20	3/4"	19	150	150	146	84.8	193	277.8	139	100	12	13.2
TPC-2212-25ANXY	25	1"	25	160	170	167	90.9	232	322.9	169	128	18	21.4
TPC-2212-32ANXY	32	1 1/4"	32	180	190	190	112.6	250	362.6	185	142	20	30.2
TPC-2212-40ANXY	40	1 1/2"	40	200	200	190	115.6	302	417.6	211	170	23	41.4

TPC valve, with flange, 3/2-way, NC

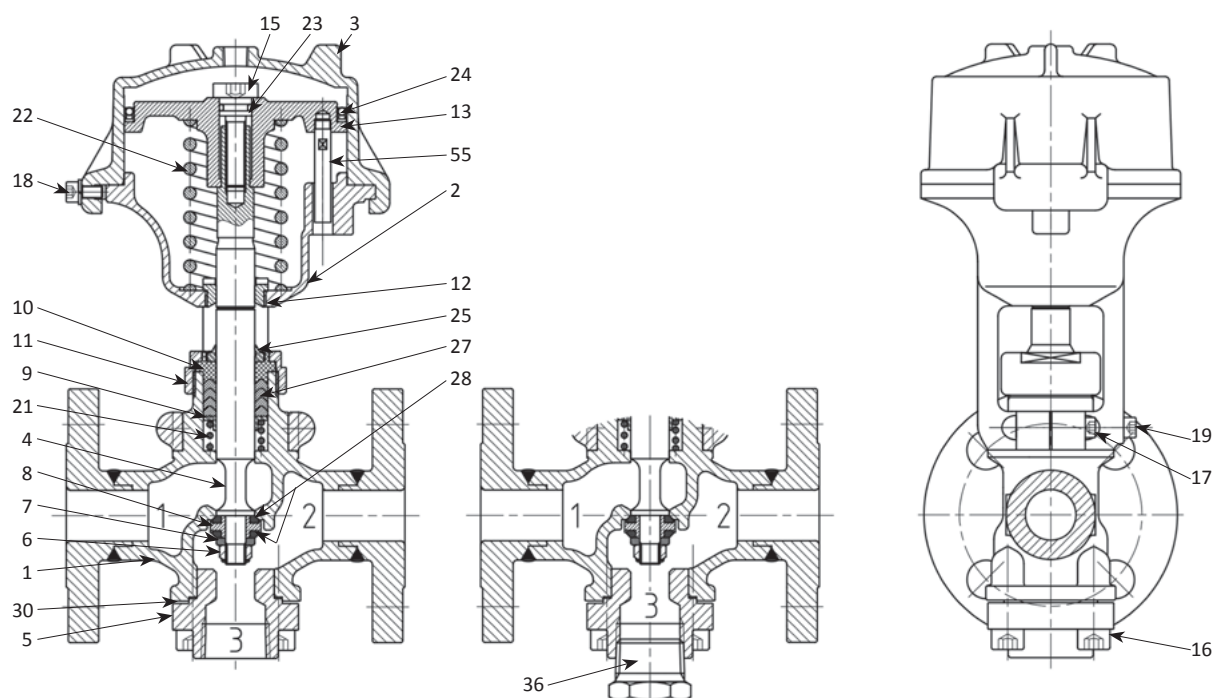
Model No.	DN	R	d	OL (DIN)	OL (ANSI)	OL (JIS)	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2312-15ANXY	15	1/2"	13	130	140	146	48.3	163.5	211.8	120	82	9.3	9
TPC-2312-20ANXY	20	3/4"	19	150	150	146	66.3	193	259.3	139	100	12	13.2
TPC-2312-25ANXY	25	1"	25	160	170	167	71.3	232	303.3	169	128	18	21.4
TPC-2312-32ANXY	32	1 1/4"	32	180	190	190	91.3	250	341.3	185	142	20	30.2
TPC-2312-40ANXY	40	1 1/2"	40	200	200	190	91.3	302	393.3	211	170	23	41.4

* Also available as version D with DIN flange or J with JIS flange and as version B with BSPT thread or P with PT thread. (on request, not a stock item)

Dimensions for ANSI flange

DN	D	C	G	T	f	N	h
15	95	66.5	35	14.5	1.6	4	15
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19
32	133	98.5	63.5	19.1	1.6	4	19
40	156	114.5	73	21.0	1.6	4	22

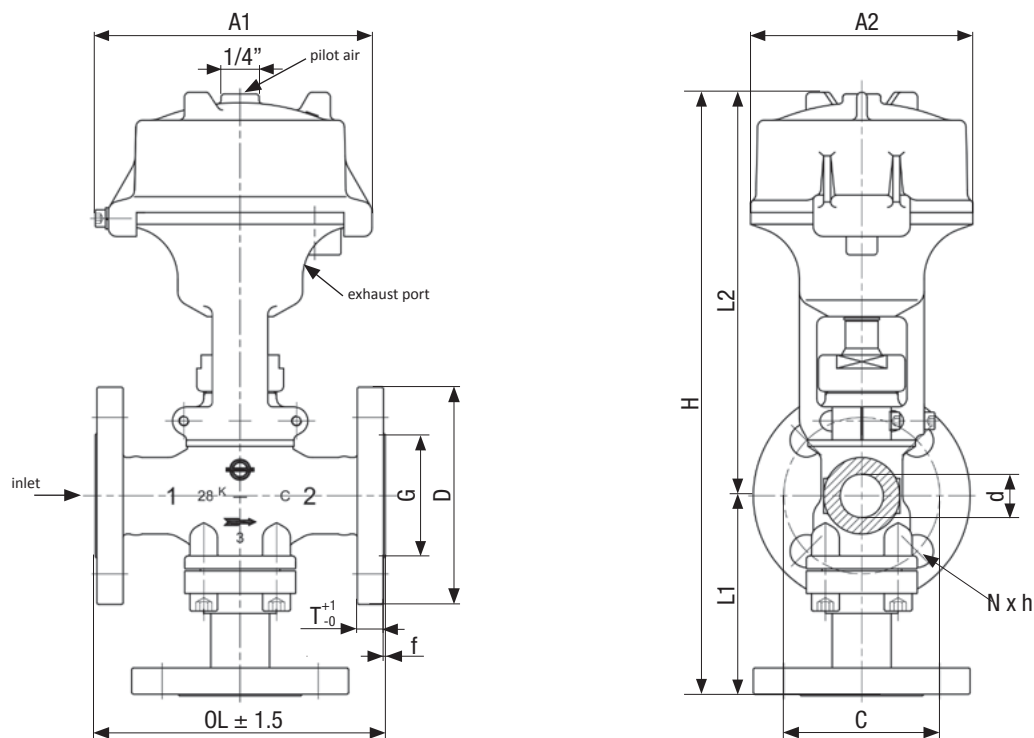
Spare parts



Nr. No.	Name	Valve	TPC-2212-15#*XY TPC-2312-15#*XY	TPC-2212-20#*XY TPC-2312-20#*XY	TPC-2212-25#*XY TPC-2312-25#*XY	TPC-2212-32#*XY TPC-2312-32#*XY	TPC-2212-40#*XY TPC-2312-40#*XY
1	Body		C-21215 - 01 #Y	C-21220 - 01 #Y	C-21225 - 01 #Y	C-21232 - 01 #Y	C-21240 - 01 #Y
2	Yoke		C-21115 - 02	C-21120 - 02	C-21125 - 02	C-21132 - 02	C-21140 - 02
3	Cylinder		C-21115 - 03 *	C-21120 - 03 *	C-21125 - 03 *	C-21132 - 03 *	C-21140 - 03 *
4	Stem		C-21115 - 04	C-21120 - 04	C-21125 - 04	C-21132 - 04	C-21140 - 04
5	Lower seat		C-21115 - 05 *X	C-21120 - 05 *X	C-21125 - 05 *X	C-21132 - 05 *X	C-21140 - 05 *X
6	U-nut		C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21132 - 06	C-21140 - 06
7	Guide washer		C-21115 - 07	C-21120 - 07	C-21125 - 07	C-21132 - 07	C-21140 - 07
8	Disc adapter		C-21115 - 08	C-21120 - 08	C-21125 - 08	C-21132 - 08	C-21140 - 08
9	Ring washer		C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21132 - 09	C-21140 - 09
10	Gland		C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21132 - 10	C-21140 - 10
11	Gland nut		C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21132 - 11	C-21140 - 11
12	Guide bushing		C-21115 - 12	C-21120 - 12	C-21125 - 12	C-21132 - 12	C-21140 - 12
13	Piston		C-21115 - 13	C-21120 - 13	C-21125 - 13	C-21132 - 13	C-21140 - 13
15	Tension bolt		C-21115 - 15	C-21120 - 15	C-21125 - 15	C-21132 - 15	C-21140 - 15
16	Socket cap screw		C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21132 - 16	C-21140 - 16
17	Socket cap screw		C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21132 - 17	C-21140 - 17
18	Wing bolt		C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21132 - 18	C-21140 - 18
19	Socket cap screw		C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21132 - 19	C-21140 - 19
21	Packing spring		C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21132 - 21	C-21140 - 21
22	Piston Spring		C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21132 - 22	C-21140 - 22
23	O-ring		C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21132 - 23	C-21140 - 23
24	Piston ring		C-21115 - 24	C-21120 - 24	C-21125 - 24	C-21132 - 24	C-21140 - 24
25	Dust seal		C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21132 - 25	C-21140 - 25
27	Gland packing		C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21132 - 27	C-21140 - 27
28	Disc ring (2x)		C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21132 - 28	C-21140 - 28
30	Lower seat gasket		C-21115 - 30	C-21120 - 30	C-21125 - 30	C-21132 - 30	C-21140 - 30
36	Plug		C-21115 - 36 *X	C-21120 - 36 *X	C-21125 - 36 *X	C-21132 - 36 *X	C-21140 - 36 *X
55	Pin gauge		C-21115 - 55	C-21120 - 55	C-21125 - 55	C-21132 - 55	C-21140 - 55

please complete: A = ANSI flange, D = DIN flange, J = JIS flange / * please complete: N = NPT thread, B = BSPT thread, P = PT thread

Dimensions (mm)



TPC valve, with flange, 3/2-way, NC

Model No.*	DN	R	d	OL (ANSI)	OL (JIS)	OL (DIN)	L1 (ANSI)	L1 (JIS)	L1 (DIN)	L2
TPC-2313-15ANXY	15	1/2"	13	140	146	130	105	85	140	163.5
TPC-2313-20ANXY	20	3/4"	19	150	146	150	110	100	140	193
TPC-2313-25ANXY	25	1"	25	170	167	160	135	115	140	232
TPC-2313-32ANXY	32	1 1/4"	32	190	190	180	145	130	175	250
TPC-2313-40ANXY	40	1 1/2"	40	200	190	200	150	145	175	302

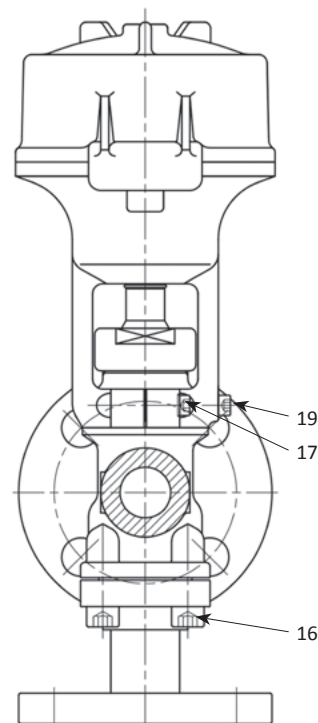
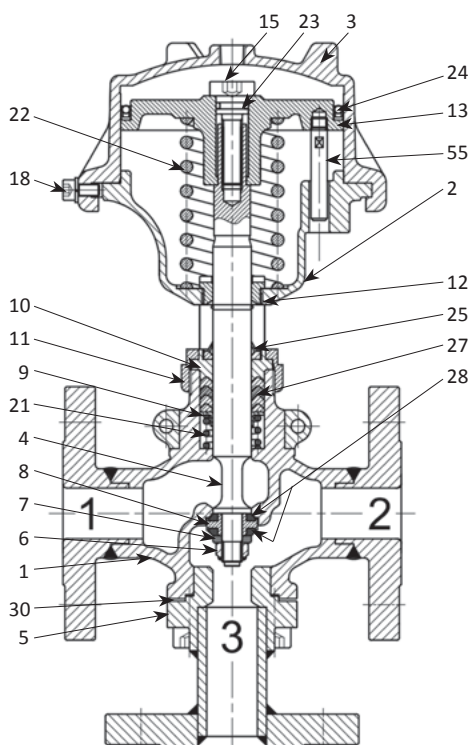
Model No.*	H (ANSI)	H (JIS)	H (DIN)	A1	A2	Stroke	Weight (lbs)
TPC-2313-15ANXY	268.5	248.5	303.5	120	82	9.3	9.9
TPC-2313-20ANXY	303	293	333	139	100	12	14.3
TPC-2313-25ANXY	367	347	372	169	128	18	20.3
TPC-2313-32ANXY	395	380	425	185	142	20	29.8
TPC-2313-40ANXY	452	447	477	211	170	23	47.4

* Also available as version D with DIN flange or J with JIS flange and as version B with BSPT thread or P with PT thread. (on request, not a stock item)

Dimensions for ANSI flange

DN	D	C	G	T	f	N	h
15	95	66.5	35	14.5	1.6	4	15
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19
32	133	98.5	63.5	19.1	1.6	4	19
40	156	114.5	73	21.0	1.6	4	22

Spare parts

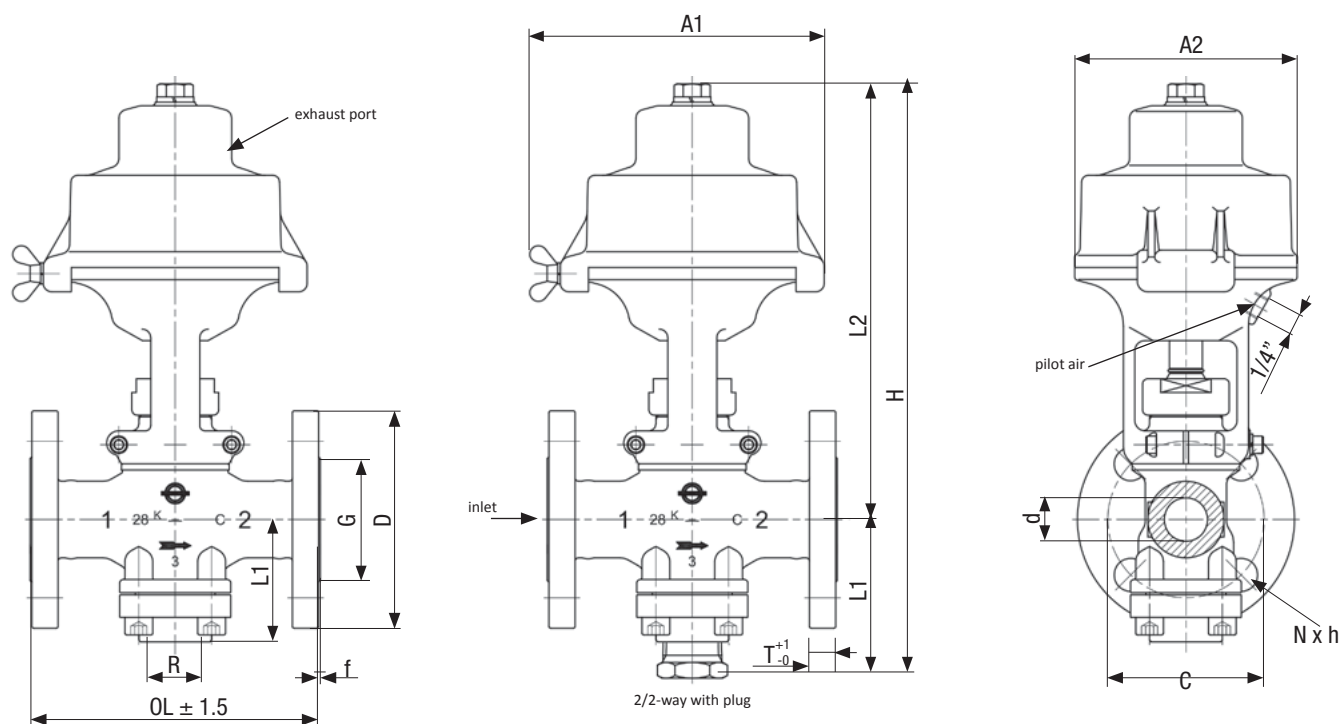


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No.	Name	Valve	TPC-2313-15#*XY	TPC-2313-20#*XY	TPC-2313-25#*XY	TPC-231332#*XY	TPC-2313-40#*XY
1	Body		C-21215 - 01 #Y	C-21220 - 01 #Y	C-21225 - 01 #Y	C-21232 - 01 #Y	C-21240 - 01 #Y
2	Yoke		C-21115 - 02	C-21120 - 02	C-21125 - 02	C-21132 - 02	C-21140 - 02
3	Cylinder		C-21115 - 03 *	C-21120 - 03 *	C-21125 - 03 *	C-21132 - 03 *	C-21140 - 03 *
4	Stem		C-21115 - 04	C-21120 - 04	C-21125 - 04	C-21132 - 04	C-21140 - 04
5	Lower seat		C-31315 - 05 #XY	C-31320 - 05 #XY	C-31325 - 05 #XY	C-31332 - 05 #XY	C-31340 - 05 #XY
6	U-nut		C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21132 - 06	C-21140 - 06
7	Guide washer		C-21115 - 07	C-21120 - 07	C-21125 - 07	C-21132 - 07	C-21140 - 07
8	Disc adapter		C-21115 - 08	C-21120 - 08	C-21125 - 08	C-21132 - 08	C-21140 - 08
9	Ring washer		C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21132 - 09	C-21140 - 09
10	Gland		C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21132 - 10	C-21140 - 10
11	Gland nut		C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21132 - 11	C-21140 - 11
12	Guide bushing		C-21115 - 12	C-21120 - 12	C-21125 - 12	C-21132 - 12	C-21140 - 12
13	Piston		C-21115 - 13	C-21120 - 13	C-21125 - 13	C-21132 - 13	C-21140 - 13
15	Tension bolt		C-21115 - 15	C-21120 - 15	C-21125 - 15	C-21132 - 15	C-21140 - 15
16	Socket cap screw		C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21132 - 16	C-21140 - 16
17	Socket cap screw		C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21132 - 17	C-21140 - 17
18	Wing bolt		C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21132 - 18	C-21140 - 18
19	Socket cap screw		C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21132 - 19	C-21140 - 19
21	Packing spring		C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21132 - 21	C-21140 - 21
22	Piston Spring		C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21132 - 22	C-21140 - 22
23	O-ring		C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21132 - 23	C-21140 - 23
24	Piston ring		C-21115 - 24	C-21120 - 24	C-21125 - 24	C-21132 - 24	C-21140 - 24
25	Dust seal		C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21132 - 25	C-21140 - 25
27	Gland packing		C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21132 - 27	C-21140 - 27
28	Disc ring (2x)		C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21132 - 28	C-21140 - 28
30	Lower seat gasket		C-21115 - 30	C-21120 - 30	C-21125 - 30	C-21132 - 30	C-21140 - 30
55	Pin gauge		C-21115 - 55	C-21120 - 55	C-21125 - 55	C-21132 - 55	C-21140 - 55

please complete: A = ANSI flange, D = DIN flange, J = JIS flange / * please complete: N = NPT thread, B = BSPT thread, P = PT thread

Dimensions (mm)



TPC valve, with flange, 2/2-way, NO

Model No.*	DN	R	d	OL (DIN)	OL (ANSI)	OL (JIS)	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2222-15ANXY	15	1/2"	13	130	140	146	65.1	186	251.1	120	82	9.3	9
TPC-2222-20ANXY	20	3/4"	19	150	150	146	84.8	220	304.8	139	100	12	13.2
TPC-2222-25ANXY	25	1"	25	160	170	167	90.9	249	339.9	169	128	18	21.4
TPC-2222-40ANXY	40	1 1/2"	40	200	200	190	115.6	330	445.6	211	170	23	41.4

TPC valve, with flange, 3/2-way, NO

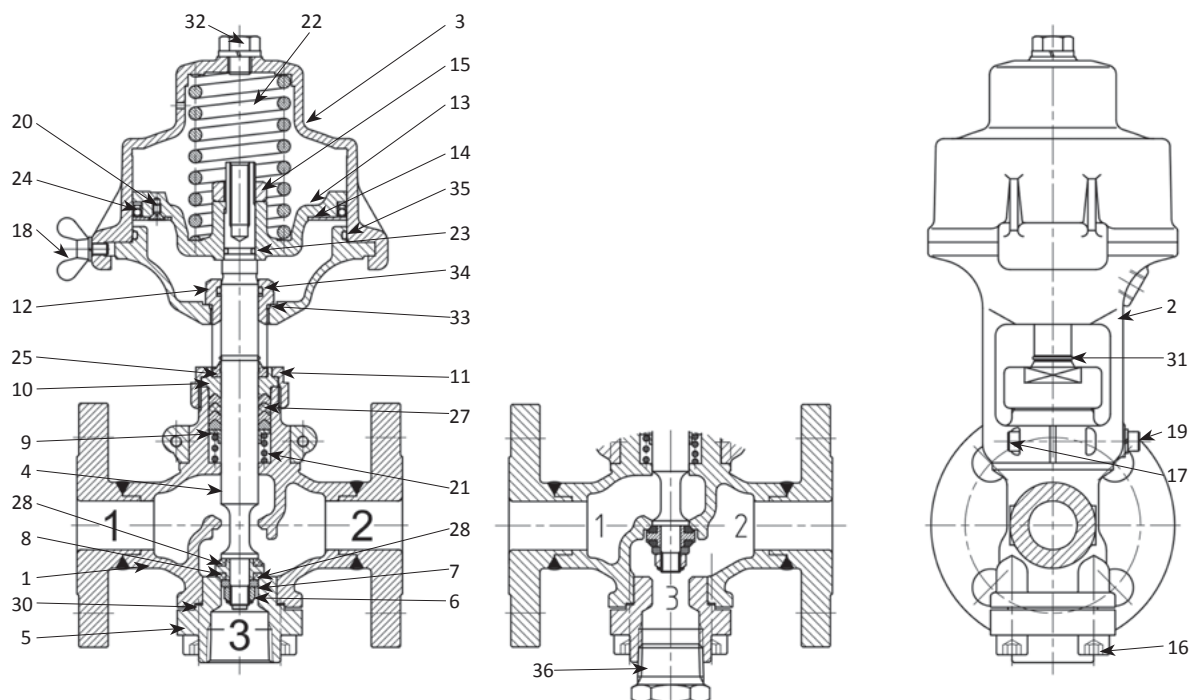
Model No.*	DN	R	d	OL (DIN)	OL (ANSI)	OL (JIS)	L1	L2	H	A1	A2	Stroke	Weight (lbs)
TPC-2322-15ANXY	15	1/2"	13	130	140	146	48.3	186	234.3	120	82	9.3	9
TPC-2322-20ANXY	20	3/4"	19	150	150	146	66.3	220	286.3	139	100	12	13.2
TPC-2322-25ANXY	25	1"	25	160	170	167	71.3	249	320.3	169	128	18	21.4
TPC-2322-40ANXY	40	1 1/2"	40	200	200	190	91.3	330	421.3	211	170	23	41.4

* Also available as version D with DIN flange or J with JIS flange and as version B with BSPT thread or P with PT thread. (on request, not a stock item)

Dimensions for ANSI flange

DN	D	C	G	T	f	N	h
15	95	66.5	35	14.5	1.6	4	15
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19
40	156	114.5	73	21.0	1.6	4	22

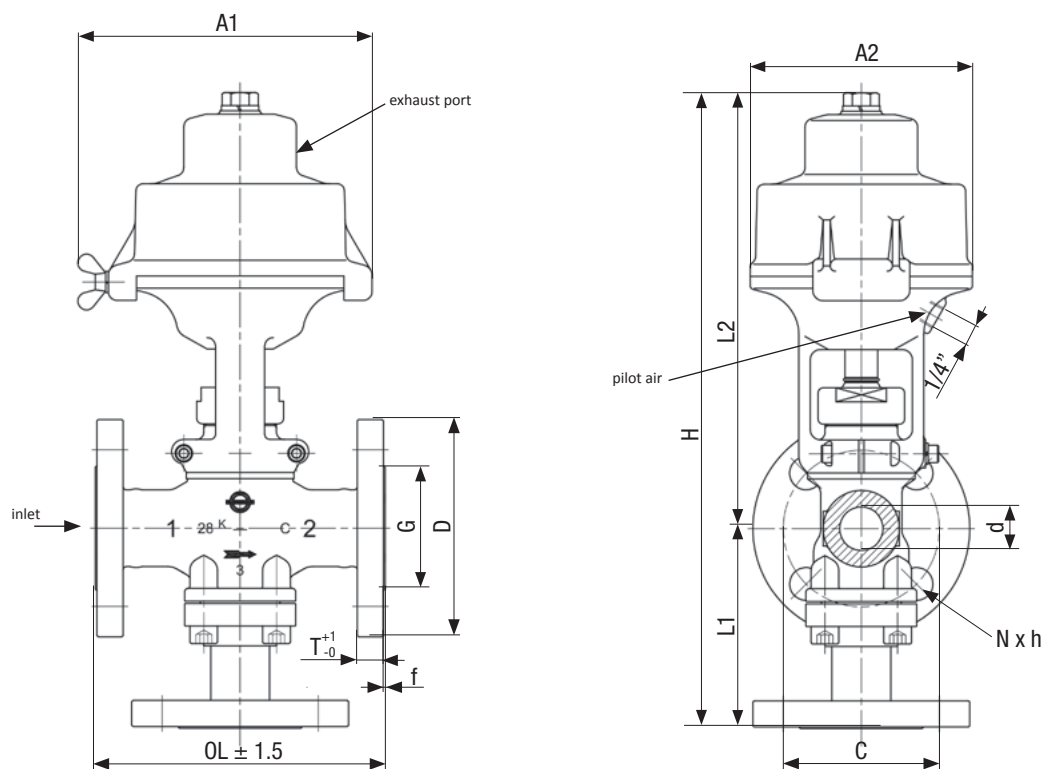
Spare parts



No.	Name	Valve	TPC-2222-15#*XY TPC-2322-15#*XY	TPC-2222-20#*XY TPC-2322-20#*XY	TPC-2222-25#*XY TPC-2322-25#*XY	TPC-2222-40#*XY TPC-2322-40#*XY
1	Body		C-21215 - 01 #Y	C-21220 - 01 #Y	C-21225 - 01 #Y	C-21240 - 01 #Y
2	Yoke		C-22115 - 02 *	C-22120 - 02 *	C-22125 - 02 *	C-22140 - 02 *
3	Cylinder		C-22115 - 03	C-22120 - 03	C-22125 - 03	C-22140 - 03
4	Stem		C-22115 - 04	C-22120 - 04	C-22125 - 04	C-22140 - 04
5	Lower seat		C-21115 - 05 *X	C-21120 - 05 *X	C-21125 - 05 *X	C-21140 - 05 *X
6	U-nut		C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21140 - 06
7	Guide washer		C-21115 - 07	C-21120 - 07	C-21125 - 07	C-21140 - 07
8	Disc adapter		C-21115 - 08	C-21120 - 08	C-21125 - 08	C-21140 - 08
9	Ring washer		C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21140 - 09
10	Gland		C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21140 - 10
11	Gland nut		C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21140 - 11
12	Guide bushing		C-21115 - 12	C-21120 - 12	C-21125 - 12	C-21140 - 12
13	Piston		C-21115 - 13	C-21120 - 13	C-21125 - 13	C-21140 - 13
14	Ring plate		C-21115 - 14	C-21120 - 14	C-21125 - 14	C-21140 - 14
15	Tension bolt		C-21115 - 15	C-21120 - 15	C-21125 - 15	C-21140 - 15
16	Socket cap screw		C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21140 - 16
17	Socket cap screw		C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21140 - 17
18	Wing bolt		C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21140 - 18
19	Socket cap screw		C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21140 - 19
20	Flat head screw		C-21115 - 20	C-21120 - 20	C-21125 - 20	C-21140 - 20
21	Packing spring		C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21140 - 21
22	Piston Spring		C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21140 - 22
23	O-ring		C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21140 - 23
24	Piston ring		C-21115 - 24	C-21120 - 24	C-21125 - 24	C-21140 - 24
25	Dust seal		C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21140 - 25
27	Gland packing		C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21140 - 27
28	Disc ring (2x)		C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21140 - 28
30	Lower seat gasket		C-21115 - 30	C-21120 - 30	C-21125 - 30	C-21140 - 30
31	Lift pin gauge		C-21115 - 31	C-21120 - 31	C-21125 - 31	C-21140 - 31
32	Plug		C-22115 - 32	C-22120 - 32	C-22125 - 32	C-22140 - 32
33	O-ring		C-22115 - 33	C-22120 - 33	C-22125 - 33	C-22140 - 33
34	O-ring with back up ring		C-22115 - 34	C-22120 - 34	C-22125 - 34	C-22140 - 34
35	O-ring		C-22115 - 35	C-22120 - 35	C-22125 - 35	C-22140 - 35
36	Plug		C-21115 - 36 *X	C-21120 - 36 *X	C-21125 - 36 *X	C-21140 - 36 *X

please complete: A = ANSI flange, D = DIN flange, J = JIS flange / * please complete: N = NPT thread, B = BSPT thread, P = PT thread

Dimensions (mm)



TPC valve, with flange, 3/2-way, NC

Model No.*	DN	R	d	OL (ANSI)	OL (JIS)	OL (DIN)	L1 (ANSI)	L1 (JIS)	L1 (DIN)	L2
TPC-2313-15ANXY	15	1/2"	13	140	146	130	105	85	140	186
TPC-2313-20ANXY	20	3/4"	19	150	146	150	110	100	140	220
TPC-2313-25ANXY	25	1"	25	170	167	160	135	115	140	249
TPC-2313-40ANXY	40	1 1/2"	40	200	190	200	150	145	175	330

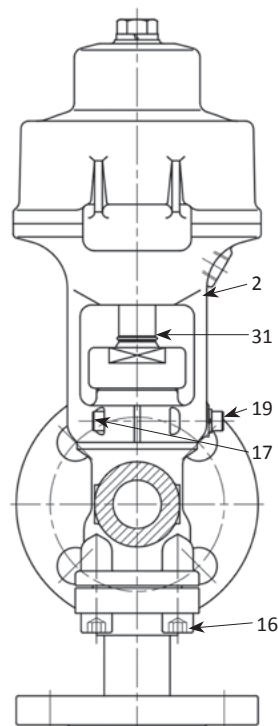
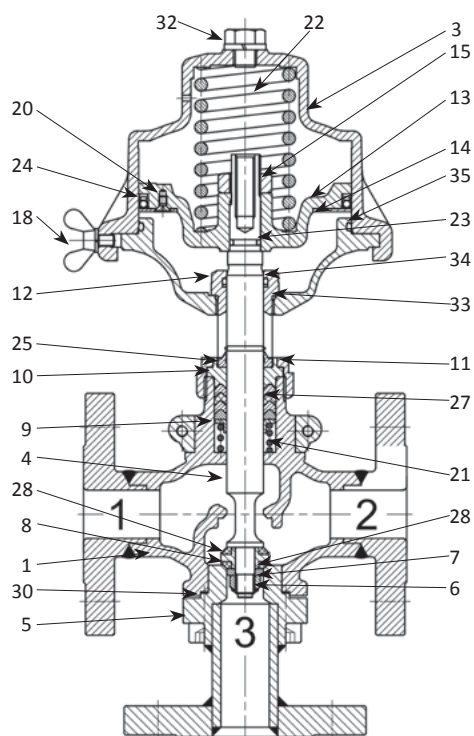
Model No.*	H (ANSI)	H (JIS)	H (DIN)	A1	A2	Stroke	Weight (lbs)
TPC-2313-15ANXY	291	271	326	120	82	9.3	11.0
TPC-2313-20ANXY	330	320	360	139	100	12	15.4
TPC-2313-25ANXY	384	364	389	169	128	18	21.4
TPC-2313-40ANXY	480	475	505	211	170	23	48.5

* Also available as version D with DIN flange or J with JIS flange and as version B with BSPT thread or P with PT thread. (on request, not a stock item)

Dimensions for ANSI flange

DN	D	C	G	T	f	N	h
15	95	66.5	35	14.5	1.6	4	15
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19
40	156	114.5	73	21.0	1.6	4	22

Spare parts



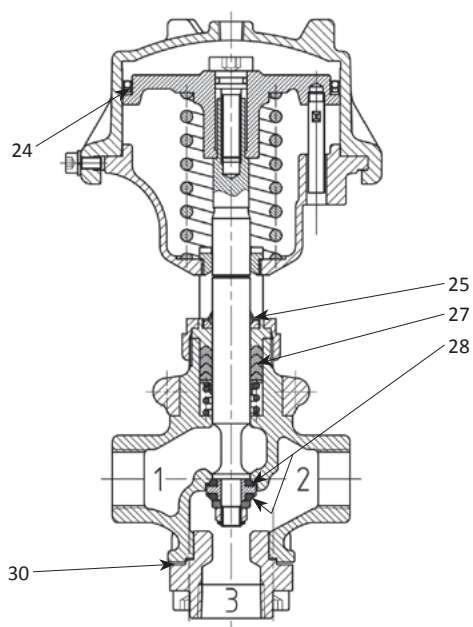
No.	Name	Valve	TPC-2323-15#*XY	TPC-2323-20#*XY	TPC-2323-25#*XY	TPC-2323-40#*XY
1	Body		C-21215 - 01 #Y	C-21220 - 01 #Y	C-21225 - 01 #Y	C-21240 - 01 #Y
2	Yoke		C-22115 - 02 *	C-22120 - 02 *	C-22125 - 02 *	C-22140 - 02 *
3	Cylinder		C-22115 - 03	C-22120 - 03	C-22125 - 03	C-22140 - 03
4	Stem		C-22115 - 04	C-22120 - 04	C-22125 - 04	C-22140 - 04
5	Lower seat		C-31315 - 05 #XY	C-31320 - 05 #XY	C-31325 - 05 #XY	C-31340 - 05 #XY
6	U-nut		C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21140 - 06
7	Guide washer		C-21115 - 07	C-21120 - 07	C-21125 - 07	C-21140 - 07
8	Disc adapter		C-21115 - 08	C-21120 - 08	C-21125 - 08	C-21140 - 08
9	Ring washer		C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21140 - 09
10	Gland		C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21140 - 10
11	Gland nut		C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21140 - 11
12	Guide bushing		C-21115 - 12	C-21120 - 12	C-21125 - 12	C-21140 - 12
13	Piston		C-21115 - 13	C-21120 - 13	C-21125 - 13	C-21140 - 13
14	Ring plate		C-21115 - 14	C-21120 - 14	C-21125 - 14	C-21140 - 14
15	Tension bolt		C-21115 - 15	C-21120 - 15	C-21125 - 15	C-21140 - 15
16	Socket cap screw		C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21140 - 16
17	Socket cap screw		C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21140 - 17
18	Wing bolt		C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21140 - 18
19	Socket cap screw		C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21140 - 19
20	Flat head screw		C-21115 - 20	C-21120 - 20	C-21125 - 20	C-21140 - 20
21	Packing spring		C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21140 - 21
22	Piston Spring		C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21140 - 22
23	O-ring		C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21140 - 23
24	Piston ring		C-21115 - 24	C-21120 - 24	C-21125 - 24	C-21140 - 24
25	Dust seal		C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21140 - 25
27	Gland packing		C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21140 - 27
28	Disc ring (2x)		C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21140 - 28
30	Lower seat gasket		C-21115 - 30	C-21120 - 30	C-21125 - 30	C-21140 - 30
31	Lift pin gauge		C-21115 - 31	C-21120 - 31	C-21125 - 31	C-21140 - 31
32	Plug		C-22115 - 32	C-22120 - 32	C-22125 - 32	C-22140 - 32
33	O-ring		C-22115 - 33	C-22120 - 33	C-22125 - 33	C-22140 - 33
34	O-ring with back up ring		C-22115 - 34	C-22120 - 34	C-22125 - 34	C-22140 - 34
35	O-ring		C-22115 - 35	C-22120 - 35	C-22125 - 35	C-22140 - 35

please complete: A = ANSI flange, D = DIN flange, J = JIS flange / * please complete: N = NPT thread, B = BSPT thread, P = PT thread

Repair kit

DN	Model no.:
08, 10, 15	RK-21115
20	RK-21120
25	RK-21125
32	RK-21132
40	RK-21140

Content

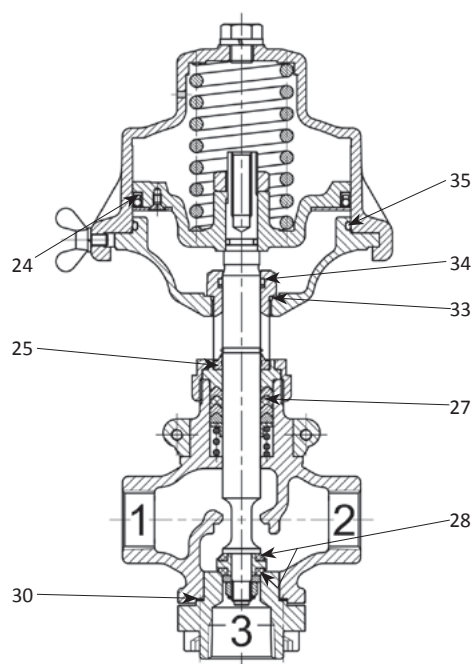


No.	Name	
25	Dust seal	
27	Gland packing	
28	Disc ring (2x)	
30	Lower seat gasket	
Recommended spare part		
24	Piston ring	

Repair kit

DN	Model no.:
08, 10, 15	RK-22115
20	RK-22120
25	RK-22125
40	RK-22140

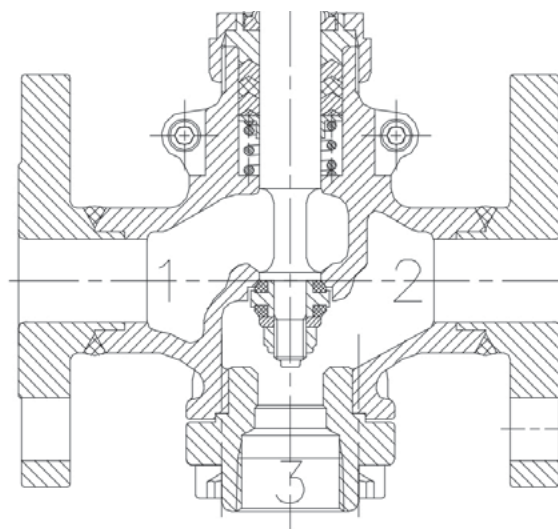
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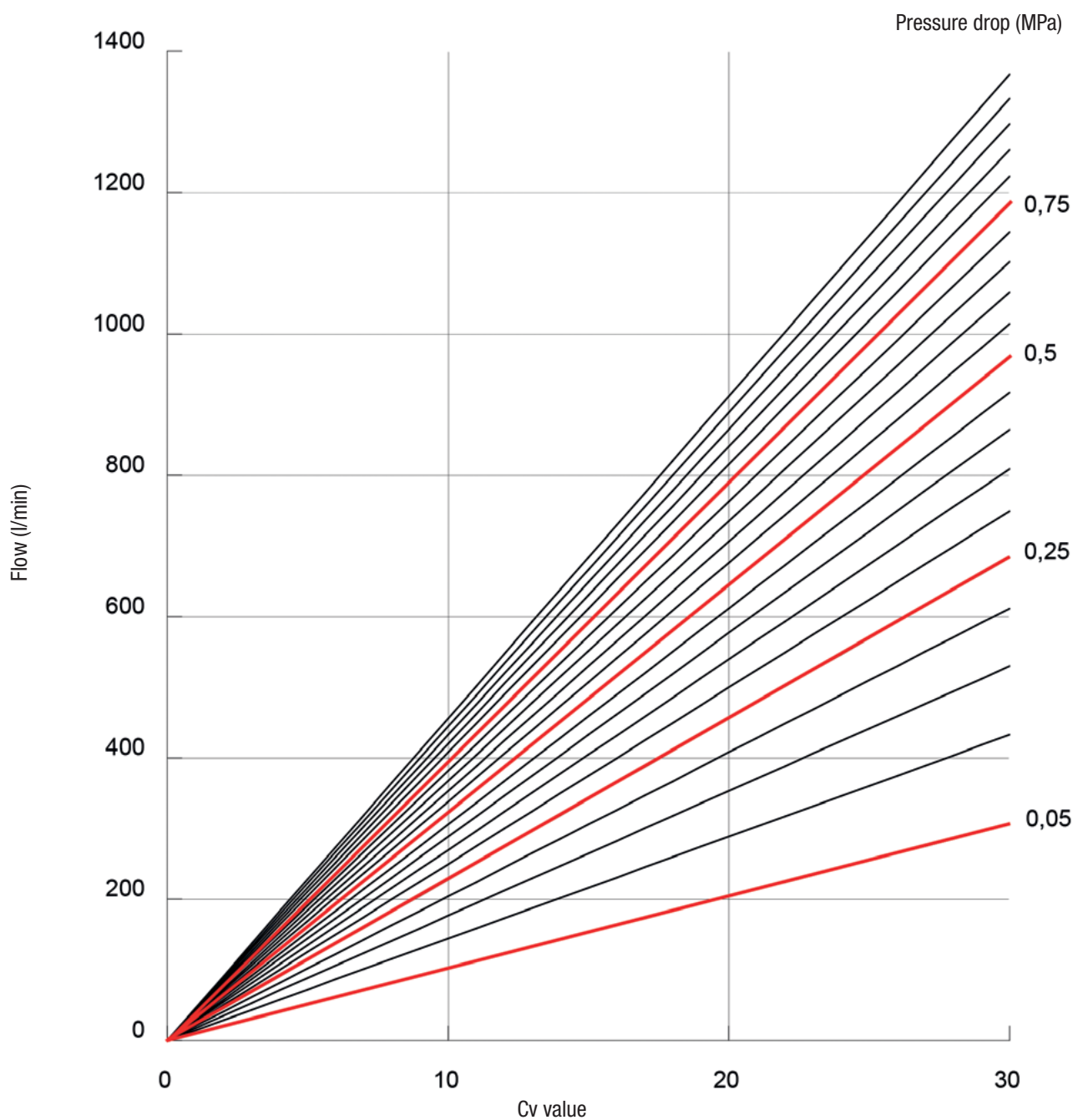
No.	Name	
25	Dust seal	
27	Gland packing	
28	Disc ring (2x)	
30	Lower seat gasket	
33	O-ring	
34	O-ring with back up ring	
35	O-ring	
Recommended spare part		
24	Piston ring	

DN	Flow direction	Kv Value	Cv Value	Pressure drop (MPa)	Flow (l/min)
15	1⇒2	2.6	2.9	0.1	42
				0.2	59
				0.3	72
	2⇒1	2.6	2.9	0.1	42
				0.2	59
				0.3	72
	2⇒3	2.5	2.8	0.1	40
				0.2	57
				0.3	70
	3⇒2	2.15	2.4	0.1	35
				0.2	49
				0.3	60
20	1⇒2	4.8	5.4	0.1	78
				0.2	110
				0.3	135
	2⇒1	5.0	5.6	0.1	81
				0.2	114
				0.3	140
	2⇒3	5.4	6	0.1	86
				0.2	122
				0.3	150
	3⇒2	4.5	5	0.1	72
				0.2	102
				0.3	125
25	1⇒2	7.7	8.6	0.1	124
				0.2	175
				0.3	215
	2⇒1	8.0	8.9	0.1	128
				0.2	181
				0.3	222
	2⇒3	10.5	11.7	0.1	169
				0.2	238
				0.3	292
	3⇒2	9.6	10.7	0.1	154
				0.2	218
				0.3	267

DN	Flow direction	Kv Value	Cv Value	Pressure drop (MPa)	Flow (l/min)
32	1⇒2	11.8	13.2	0.1	190
				0.2	269
				0.3	330
	2⇒1	13.1	14.6	0.1	210
				0.2	298
				0.3	364
	2⇒3	14.1	15.8	0.1	228
				0.2	322
				0.3	394
	3⇒2	16.4	18.3	0.1	264
				0.2	373
				0.3	457
40	1⇒2	19.8	22.1	0.1	319
				0.2	450
				0.3	552
	2⇒1	19.1	21.4	0.1	308
				0.2	436
				0.3	534
	2⇒3	24.7	27.6	0.1	398
				0.2	563
				0.3	689
	3⇒2	25.2	28.2	0.1	406
				0.2	575
				0.3	704



Flow chart of Cv value / pressure drop



These valves are used for control of cold water line. The compact design allows installation in narrow space. The same valve can be used either single or double acting applications. To change the valve from single to double acting only the spring (item 13) and plug (item 20) have to be removed.

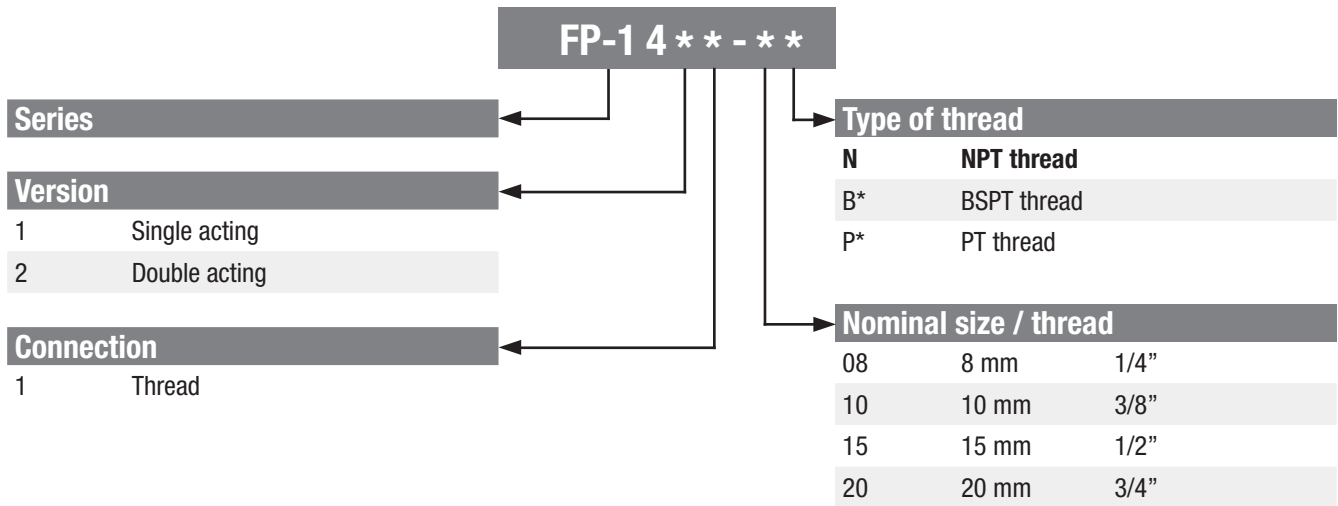
Operating pressure	max. 430 psi
Pilot pressure	36 - 51 psi
Temperature	max. + 149°F
Body material	Bronze
Material of Cylinder	Cast Iron, inside cromium plated
Medium	Cold water, air, neutral gas

Overview

Order code		Thread	Weight (lbs)
Single acting	Double acting		
FP-1411-08B	FP-1421-08B	1/4" BSPT	5.3
FP-1411-08N	FP-1421-08N	1/4" NPT	5.3
FP-1411-10B	FP-1421-10B	3/8" BSPT	5.3
FP-1411-10N	FP-1421-10N	3/8" NPT	5.3
FP-1411-15B	FP-1421-15B	1/2" BSPT	10.80
FP-1411-15N	FP-1421-15N	1/2" NPT	10.80
FP-1411-20B	FP-1421-20B	3/4" BSPT	10.80
FP-1411-20N	FP-1421-20N	3/4" NPT	10.80



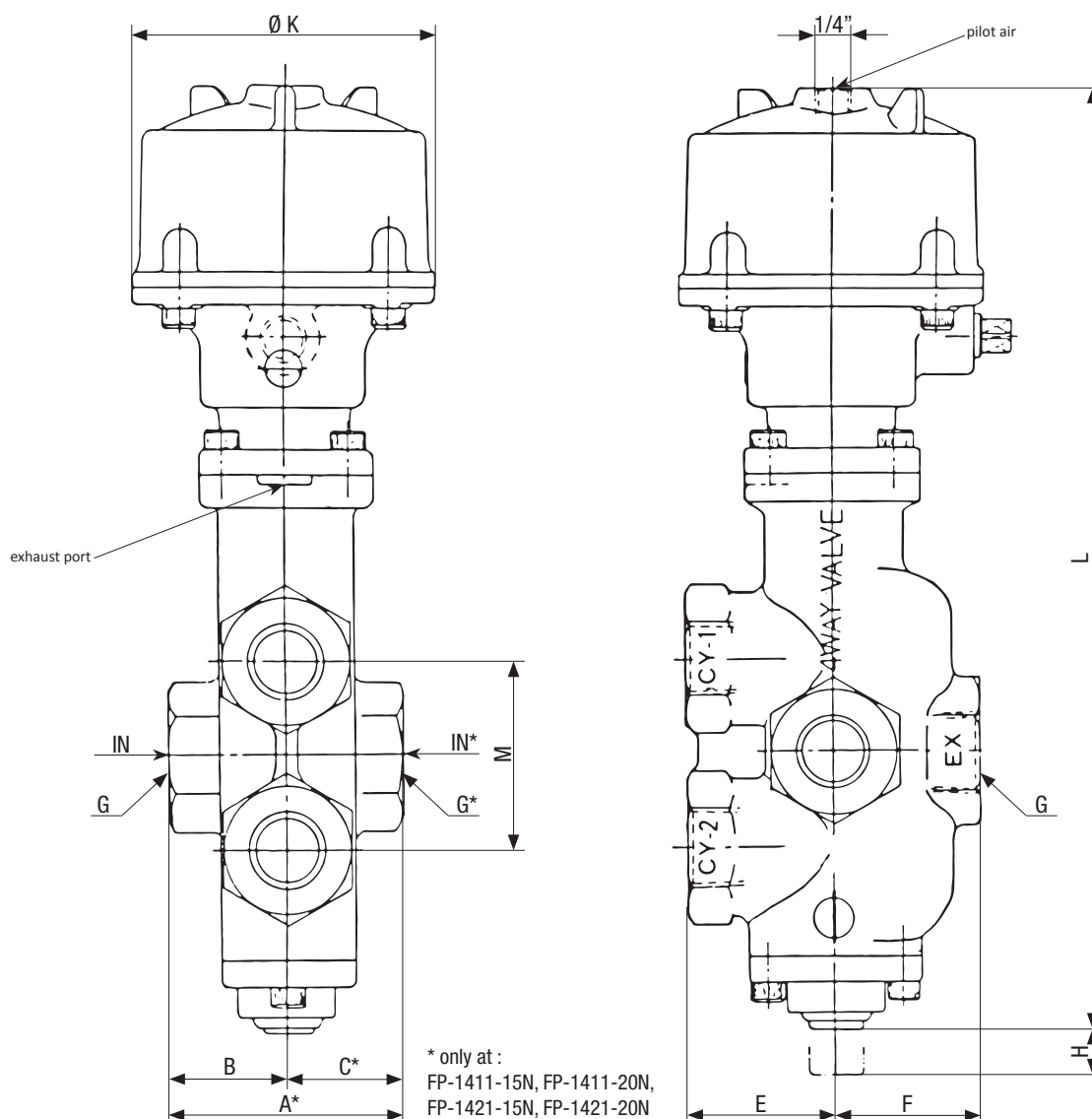
Order Code



2

* Available on Request. Not a stock item.

Dimensions (mm)

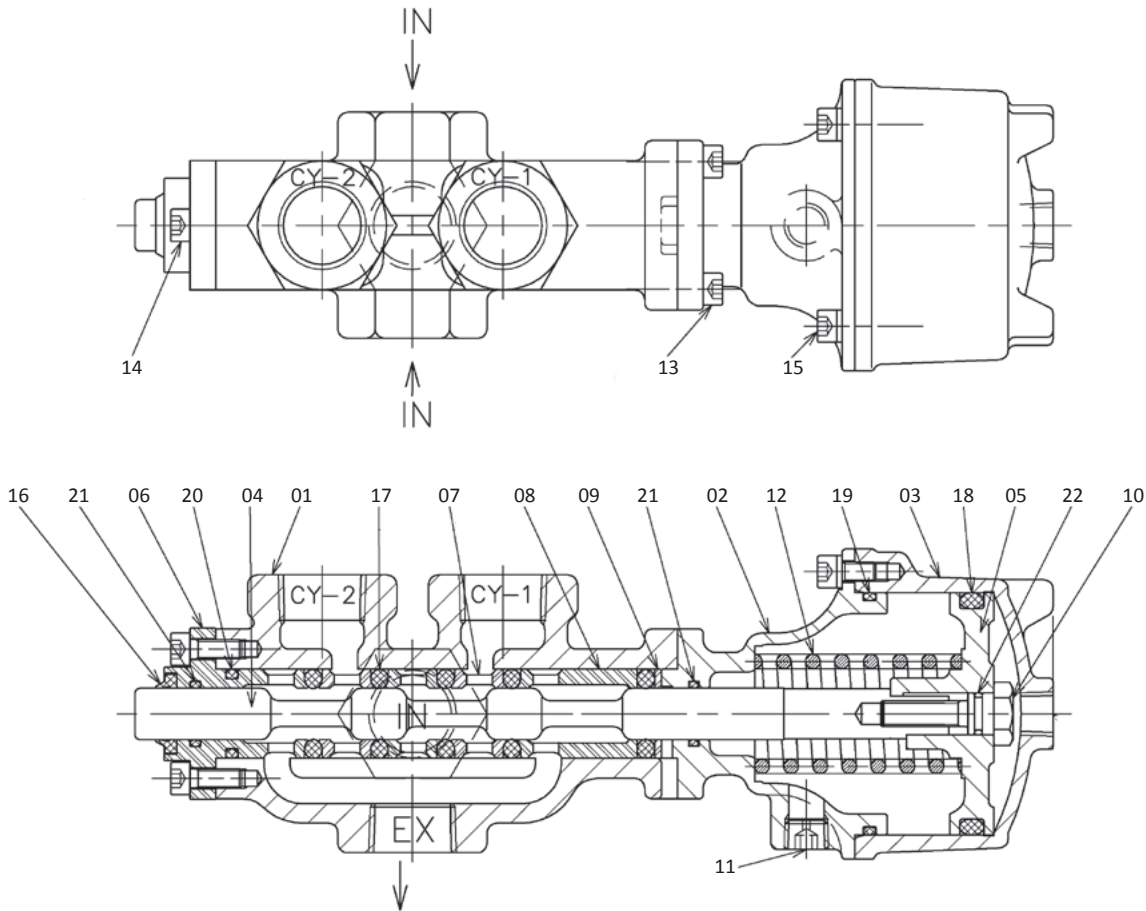


FP valve, tapped, 4/2-way

Model No.	DN	G*	A	B	C	E	F	L	$\varnothing K$	M	H (stroke)
FP-1411-08N	8	1/4"	-	30	-	30	33	202	82	41	16.5
FP-1411-10N	10	3/8"	-	30	-	30	33	202	82	41	16.5
FP-1411-15N	15	1/2"	70	35	35	43	43	282	90	56	20
FP-1411-20N	20	3/4"	70	35	35	43	43	282	90	56	20
FP-1421-08N	8	1/4"	-	30	-	30	33	202	82	41	16.5
FP-1421-10N	10	3/8"	-	30	-	30	33	202	82	41	16.5
FP-1421-15N	15	1/2"	70	35	35	43	43	282	90	56	20
FP-1421-20N	20	3/4"	70	35	35	43	43	282	90	56	20

*Thread type NPT. Valves with BSPT (Rc) according to ISO 7-1 DIN EN 10226/1 or PT thread are available on request. (The dimensions are identical to the standard NPT version.) Refer to order code on page 21 .

Spare parts



No.	Name	Valve	FP-1411-08*	FP-1421-08*	FP-1411-10*	FP-1421-10*	FP-1411-15*	FP-1421-15*	FP-1411-20*	FP-1421-20*
1	Body		F-41108-01*	F-41108-01*	F-41110-01*	F-41110-01*	F-41115-01*	F-41115-01*	F-41120-01*	F-41120-01*
2	Yoke		F-41108-02*	F-41108-02*	F-41108-02*	F-41108-02*	F-41115-02*	F-41115-02*	F-41115-02*	F-41115-02*
3	Cylinder		F-41108-03	F-41108-03	F-41108-03	F-41108-03	F-41115-03	F-41115-03	F-41115-03	F-41115-03
4	Stem		F-41108-04	F-41108-04	F-41108-04	F-41108-04	F-41115-04	F-41115-04	F-41115-04	F-41115-04
5	Piston		F-41108-05	F-41108-05	F-41108-05	F-41108-05	F-41115-05	F-41115-05	F-41115-05	F-41115-05
6	Valve cover		F-41108-06	F-41108-06	F-41108-06	F-41108-06	F-41115-06	F-41115-06	F-41115-06	F-41115-06
7	Bushing ring		F-41108-07 (5)	F-41108-07 (5)	F-41108-07 (5)	F-41108-07 (5)	F-41115-07 (3)	F-41115-07 (3x)	F-41115-07 (3)	F-41115-07 (3)
8	Long bushing ring		-	-	-	-	F-41115-08	F-41115-08	F-41115-08	F-41115-08
9	Guide washer		F-41108-08	F-41108-08	F-41108-08	F-41108-08	F-41115-09	F-41115-09	F-41115-09	F-41115-09
10	Tension bolt		F-41108-09	F-41108-09	F-41108-09	F-41108-09	F-41115-10	F-41115-10	F-41115-10	F-41115-10
11	Plug		F-41108-20X	-	F-41108-20X	-	F-41108-20X	-	F-41108-20X	-
12	Piston Spring		F-41108-13	-	F-41108-13	-	F-41115-12	-	F-41115-12	-
13	Socket cap screw (4)		F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10
14	Socket cap screw (2)		F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10
15	Socket cap screw (4)		F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10	F-41108-10
16 ¹⁾	Dust seal		F-41108-14	F-41108-14	F-41108-14	F-41108-14	F-41115-16	F-41115-16	F-41115-16	F-41115-16
17 ¹⁾	O-ring		F-41108-15 (6)	F-41108-15 (6)	F-41108-15 (6)	F-41108-15 (6)	F-41115-17 (5)	F-41115-17 (5)	F-41115-17 (5)	F-41115-17 (5)
18 ¹⁾	O-ring		F-41108-19	F-41108-19	F-41108-19	F-41108-19	F-41115-18	F-41115-18	F-41115-18	F-41115-18
19 ¹⁾	O-ring		F-41108-18	F-41108-18	F-41108-18	F-41108-18	F-41115-19	F-41115-19	F-41115-19	F-41115-19
20 ¹⁾	O-ring		-	-	-	-	F-41115-20	F-41115-20	F-41115-20	F-41115-20
21 ¹⁾	O-ring		F-41108-16	F-41108-16	F-41108-16	F-41108-16	F-41115-21 (2x)	F-41115-21 (2x)	F-41115-21 (2x)	F-41115-21 (2x)
22 ¹⁾	O-ring		F-41108-17	F-41108-17	F-41108-17	F-41108-17	F-41115-22	F-41115-22	F-41115-22	F-41115-22

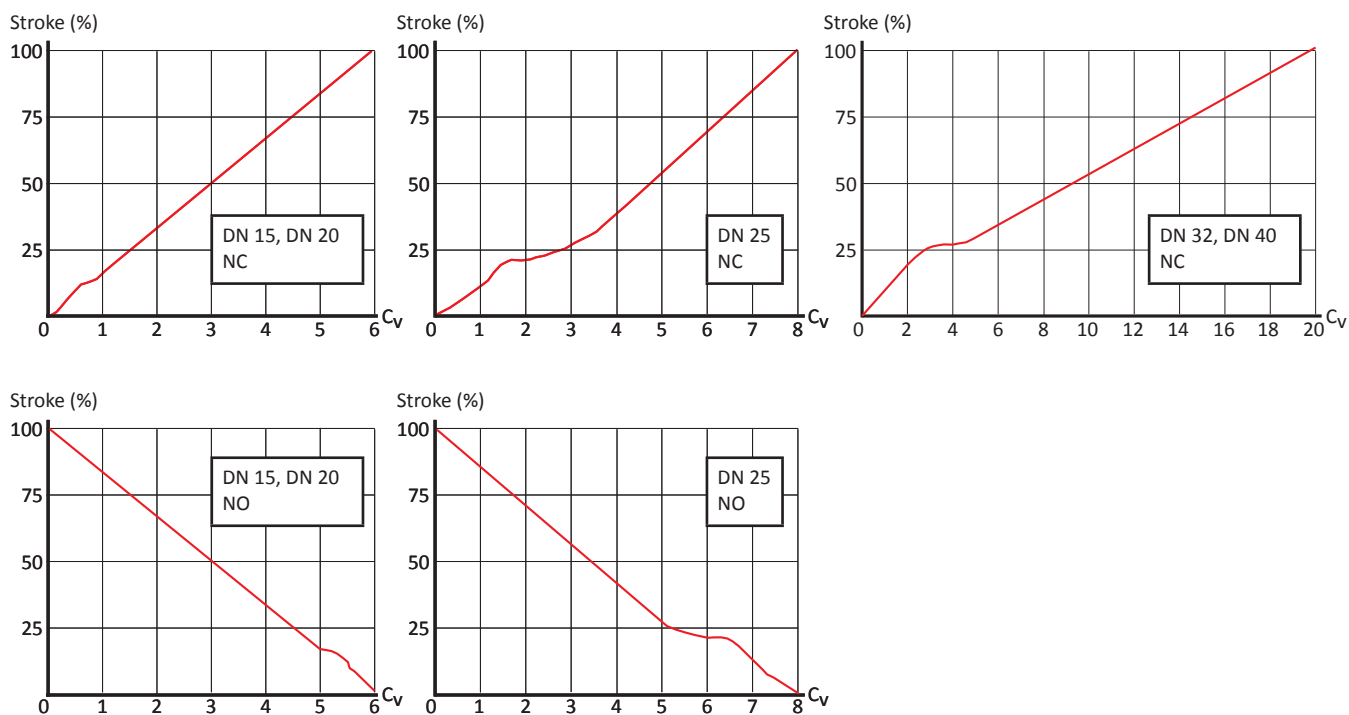
* please complete: N = NPT thread, B = BSPT thread / ¹⁾ Contained in repair kit RK-41108 (DN 08 and DN 10) or RK-41115 (DN 15 and DN 20).

These valves are designed for control the flow of steam, nitrogen and air. They guarantee highly accurate process control. The spring loaded gland packings are self-adjusting.

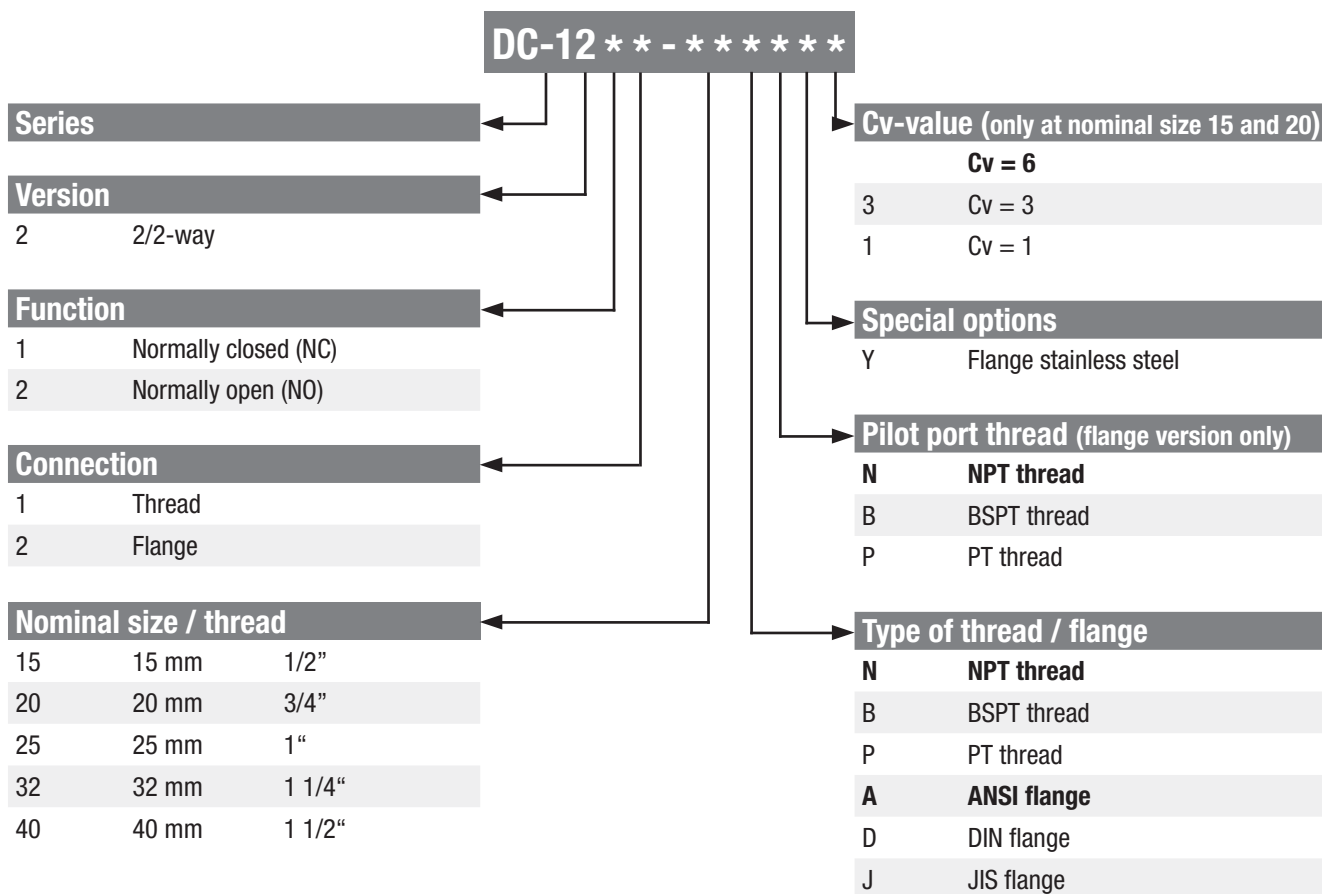
Operating pressure	max. 246 psi
Back pressure	max. 84 psi
Pilot pressure	2.9 - 14.5 psi
Pressure class	300
Temperature range	max + 410°F
Medium	Steam, Nitrogen, Air
Body material	Stainless steel casting
Stem and seat material	Stainless steel
Packing material	Graphite-reinforced Teflon®
Seal type	Metallic seal



Regulating characteristic



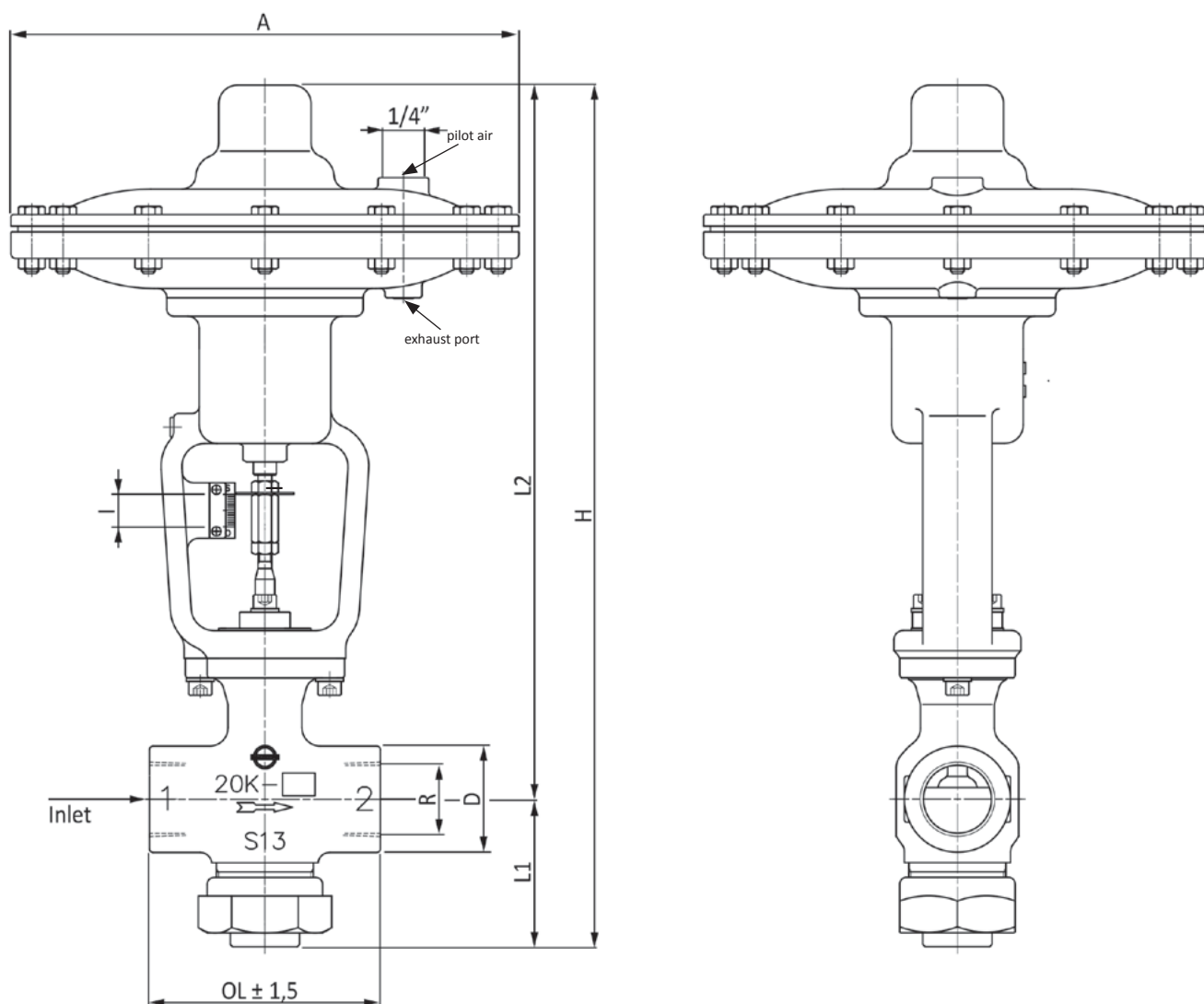
Order Code



3

Not all combinations are possible and available.

Dimensions (mm)



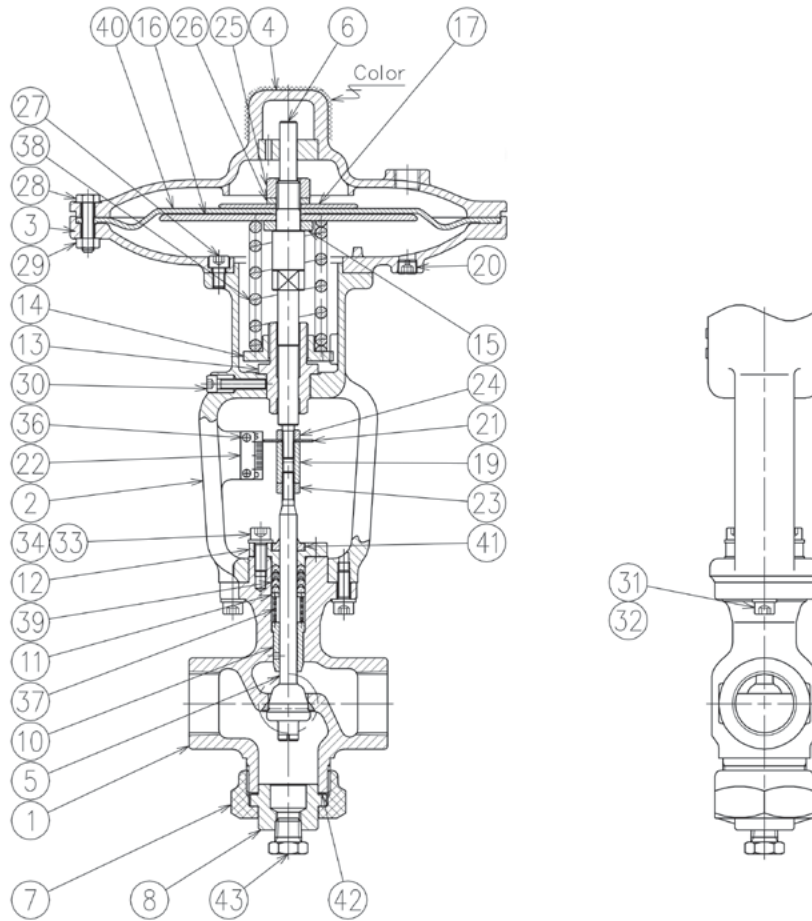
DC valve, tapped, 2/2-way, NC

Model No.	DN	Internal thread *	A	D	H	L1	L2	OL	I = Stroke	Weight (lbs)
DC-1211-15N	15	1/2"	220	38	376.5	71.5	305	95	14	16.5
DC-1211-20N	20	3/4"	220	38	376.5	71.5	305	95	14	16.3
DC-1211-25N	25	1"	220	46	385.5	76.5	309	100	14	24.9
DC-1211-32N	32	1 1/4"	282	65	525	94	431	130	18	38.1
DC-1211-40B	40	1 1/2"	282	65	525	94	431	130	18	37.9

*Thread type NPT. Valves with BSPT (Rc) according to ISO 7-1 DIN EN 10226/1 or PT thread are available on request. (The dimensions are identical to the standard NPT version.)

Refer to order code on page 25 .

Spare parts



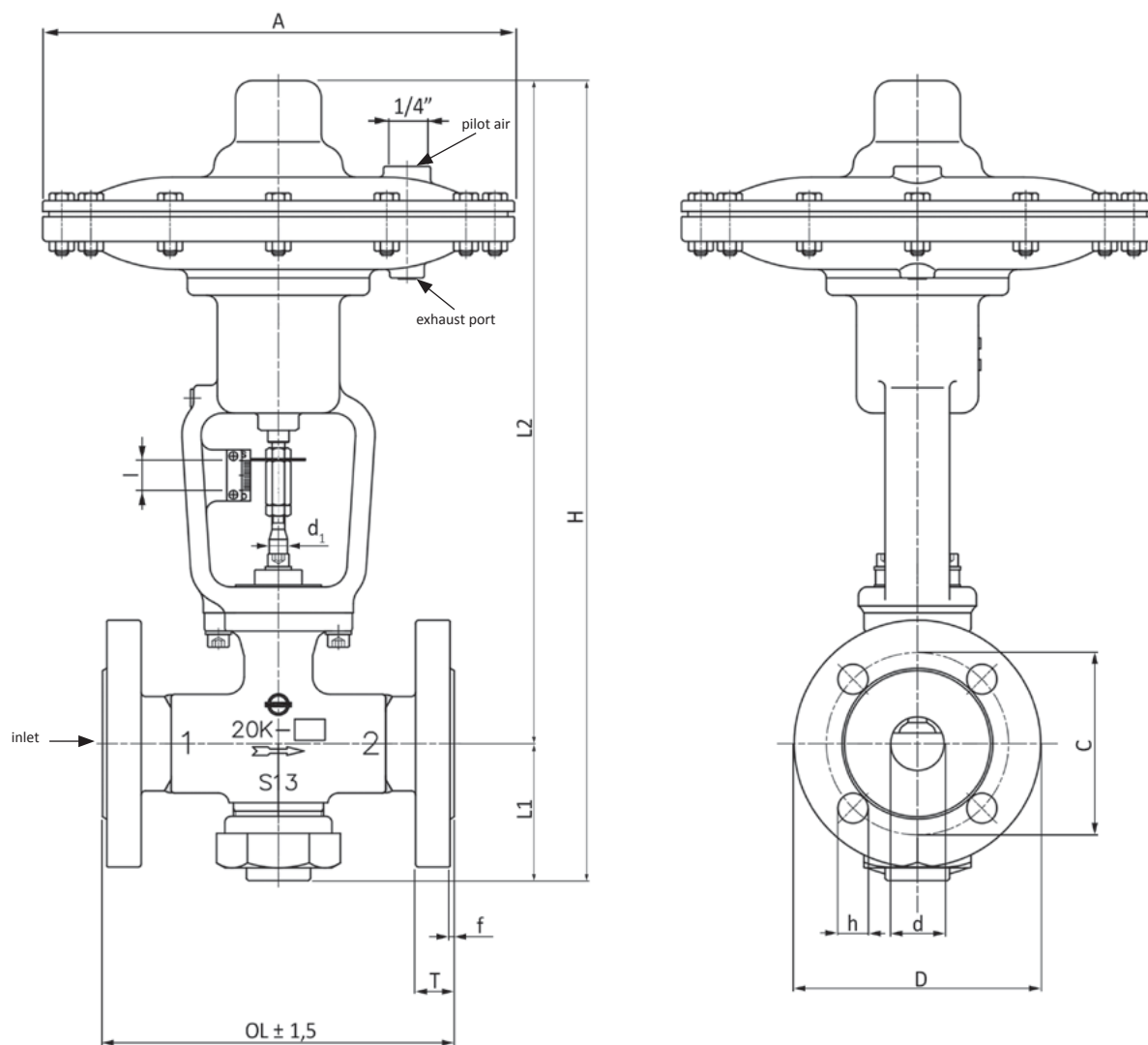
3

No.	Name	Valve	DC-1211-15* DC-1211-20*	DC-1211-25*	DC-1211-32* DC-1211-40*
1	Body		D-21115-01*	D-21125-01*	D-21132-01*
2	Yoke		D-21115-02	D-21125-02	D-21132-02
3	Lower cover		D-21115-03	D-21125-03	D-21132-03
4	Upper cover		D-21115-04*	D-21125-04*	D-21132-04*
5	Stem		D-21115-05	D-21125-05	D-21132-05
6	Diaphragm rod		D-21115-06	D-21125-06	D-21132-06
7	Bottom nut		D-21115-07	D-21125-07	D-21132-07
8	Cover		D-21115-08	D-21125-08	D-21132-08
10	Rod guide		D-21115-10	D-21125-10	D-21132-10
11	Packing washer		D-21115-11	D-21125-11	D-21132-11
12	Gland		D-21115-12	D-21125-12	D-21132-12
13	Adjust rod guide		D-21115-13	D-21125-13	D-21132-13
14	Spring seat		D-21115-14	D-21125-14	D-21132-14
15	Washer		D-21115-15	D-21125-15	D-21132-15
16	Diaphragm lower seat		D-21115-16	D-21125-16	D-21132-16
17	Diaphragm upper seat		D-21115-17	D-21125-17	D-21132-17
19	Join nut		D-21115-19	D-21125-19	D-21132-19
20	Orifice plug		D-21115-20	D-21125-20	D-21132-20
21	Lift gauge ring		D-21115-21	D-21125-21	D-21132-21
22	Lift gauge plate		D-21115-22	D-21125-22	D-21132-22

No.	Name	Valve	DC-1211-15* DC-1211-20*	DC-1211-25*	DC-1211-32* DC-1211-40*
23	Set nut (left)		D-21115-23	D-21125-23	D-21132-23
24	Set nut (right)		D-21115-24	D-21125-24	D-21132-24
25	Nut		D-21115-25	D-21125-25	D-21132-25
26	Spring lock washer		D-21115-26	D-21125-26	D-21132-26
27	Socket cap screw (6)		D-21115-27	D-21125-27	D-21132-27
28	Hexagon head screw (12)		D-21115-28	D-21125-28	D-21132-28
29	Nut (12)		D-21115-29	D-21125-29	D-21132-29
30	Socket cap screw		D-21115-30	D-21125-30	D-21132-30
31	Socket cap screw (2)		D-21115-31	D-21125-31	D-21132-31
32	Spring lock washer (2)		D-21115-32	D-21125-32	D-21132-32
33	Socket cap screw (2)		D-21115-33	D-21125-33	D-21132-33
34	Spring lock washer (2)		D-21115-34	D-21125-34	D-21132-34
36	Driving screw (2)		D-21115-36	D-21125-36	D-21132-36
37	Packing spring		D-21115-37	D-21125-37	D-21132-37
38	Spring		D-21115-38	D-21125-38	D-21132-38
39	Gland packing		D-21115-39	D-21125-39	D-21132-39
40	Diaphragm		D-21115-40	D-21125-40	D-21132-40
41	Dust seal		D-21115-41	D-21125-41	D-21132-41
42	Gasket		D-21115-42	D-21125-42	D-21132-42
43	Plug		D-21115-43	D-21125-43	D-21132-43

* please complete: N = NPT thread, P = PT thread, B = BSPT thread

Dimensions (mm)



DC valve, with flange, 2/2-way, NC

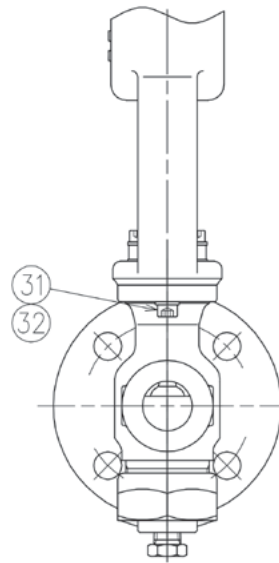
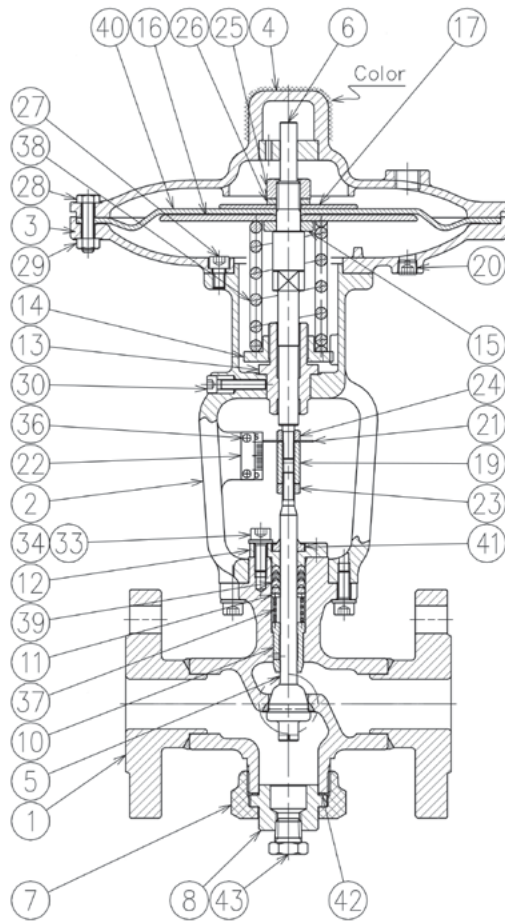
Model No.	DN	A	H	L1	L2	OL (DIN)	OL (ANSI)	OL (JIS)	I = Stroke	Weight (lbs)
DC-1212-15AN	15	220	376.5	71.5	305	154	140	146	14	16.5
DC-1212-20AN	20	220	376.5	71.5	305	154	150	146	14	16.3
DC-1212-25AN	25	220	385.5	76.5	309	164	170	167	14	24.9
DC-1212-32AN	32	282	525	94	431	180	190	190	18	38.1
DC-1212-40AN	40	282	525	94	431	190	200	190	18	37.9

Dimensions for ANSI flange

DN	D	C	G	T	f	N	h
15	95	66.5	35	14.5	1.6	4	15
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19
32	133	98.5	63.5	19.1	1.6	4	19

* Also available as version D with DIN flange or J with JIS flange.

Spare parts



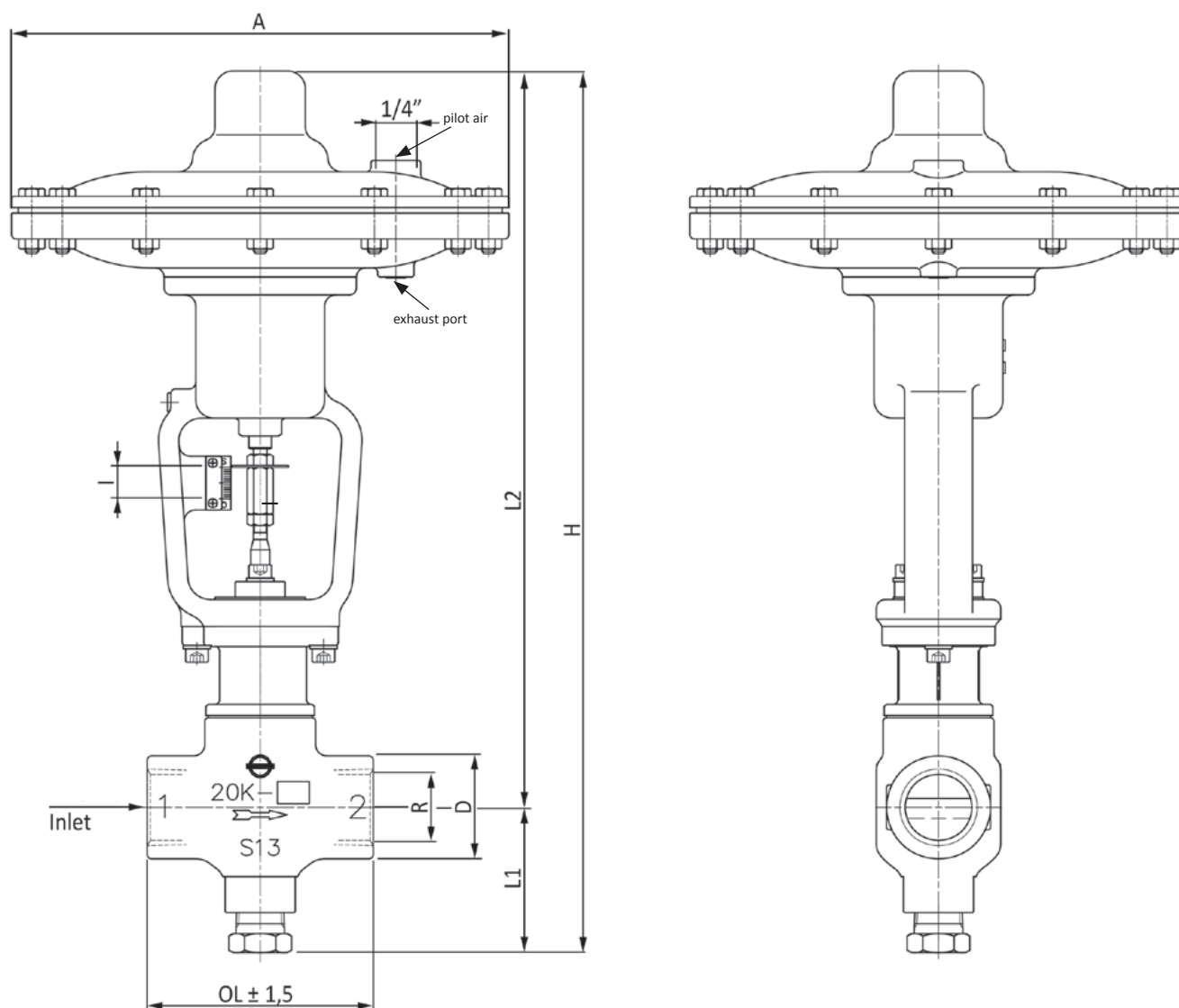
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No.	Name	Valve	DC-1212-15#* DC-1212-20#*	DC-1212-25#*	DC-1212-32#* DC-1212-40#*
1	Body		D-21215-01#* D-21220-01#*	D-21225-01#*	D-21232-01#* D-21240-01#*
2	Yoke		D-21115-02	D-21125-02	D-21132-02
3	Lower cover		D-21115-03	D-21125-03	D-21132-03
4	Upper cover		D-21115-04*	D-21125-04*	D-21132-04*
5	Stem		D-21115-05	D-21125-05	D-21132-05
6	Diaphragm rod		D-21115-06	D-21125-06	D-21132-06
7	Bottom nut		D-21115-07	D-21125-07	D-21132-07
8	Bottom plug		D-21115-08	D-21125-08	D-21132-08
10	Rod guide		D-21115-10	D-21125-10	D-21132-10
11	Packing washer		D-21115-11	D-21125-11	D-21132-11
12	Gland		D-21115-12	D-21125-12	D-21132-12
13	Adjust rod guide		D-21115-13	D-21125-13	D-21132-13
14	Spring seat		D-21115-14	D-21125-14	D-21132-14
15	Washer		D-21115-15	D-21125-15	D-21132-15
16	Diaphragm lower seat		D-21115-16	D-21125-16	D-21132-16
17	Diaphragm upper seat		D-21115-17	D-21125-17	D-21132-17
19	Join nut		D-21115-19	D-21125-19	D-21132-19
20	Orifice plug		D-21115-20	D-21125-20	D-21132-20
21	Lift gauge ring		D-21115-21	D-21125-21	D-21132-21
22	Lift gauge plate		D-21115-22	D-21125-22	D-21132-22

Nr. No.	No.	Valve	DC-1212-15#* DC-1212-20#*	DC-1212-25#*	DC-1212-32#* DC-1212-40#*
23	Set nut (left)		D-21115-23	D-21125-23	D-21132-23
24	Set nut (right)		D-21115-24	D-21125-24	D-21132-24
25	Nut		D-21115-25	D-21125-25	D-21132-25
26	Spring lock washer		D-21115-26	D-21125-26	D-21132-26
27	Socket cap screw (6)		D-21115-27	D-21125-27	D-21132-27
28	Hexagon head screw (12)		D-21115-28	D-21125-28	D-21132-28
29	Nut (12)		D-21115-29	D-21125-29	D-21132-29
30	Socket cap screw		D-21115-30	D-21125-30	D-21132-30
31	Socket cap screw (2)		D-21115-31	D-21125-31	D-21132-31
32	Spring lock washer (2)		D-21115-32	D-21125-32	D-21132-32
33	Socket cap screw (2)		D-21115-33	D-21125-33	D-21132-33
34	Spring lock washer (2)		D-21115-34	D-21125-34	D-21132-34
36	Driving screw (2)		D-21115-36	D-21125-36	D-21132-36
37	Packing spring		D-21115-37	D-21125-37	D-21132-37
38	Spring		D-21115-38	D-21125-38	D-21132-38
39	Gland packing		D-21115-39	D-21125-39	D-21132-39
40	Diaphragm		D-21115-40	D-21125-40	D-21132-40
41	Dust seal		D-21115-41	D-21125-41	D-21132-41
42	Gasket		D-21115-42	D-21125-42	D-21132-42
43	Plug		D-21115-43	D-21125-43	D-21132-43

please complete: A = ANSI flange, D = DIN flange, J = JIS flange
* please complete: N = NPT thread, P = PT thread, B = BSPT thread

Dimensions (mm)



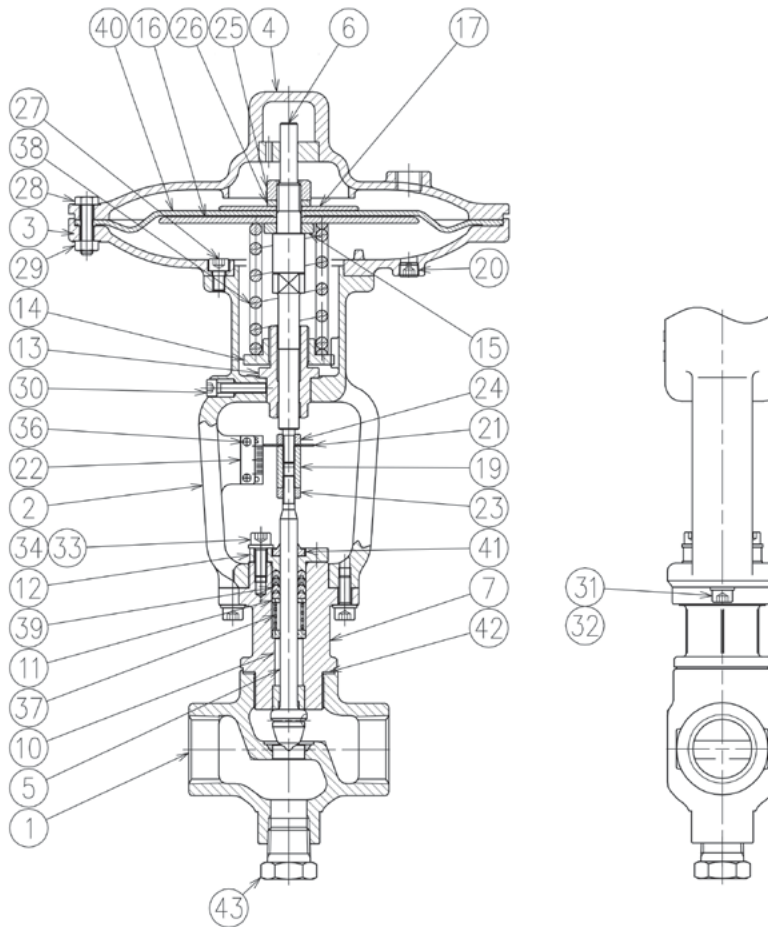
DC valve, tapped, 2/2-way, NO

Model No.	DN	Internal thread *	A	D	H	L1	L2	OL	I = Stroke	Weight (lbs)
DC-1221-15*	15	1/2"	220	38	370.8	48	322.8	95	14	15.4
DC-1221-20*	20	3/4"	220	38	376.5	48	322.8	95	14	15.2
DC-1221-25*	25	1"	220	46	375.8	53	322.8	100	14	23.6

*Thread type NPT. Valves with BSPT (Rc) according to ISO 7-1 DIN EN 10226/1 or PT thread are available on request. (The dimensions are identical to the standard NPT version.)

Refer to order code on page 25 .

Spare parts



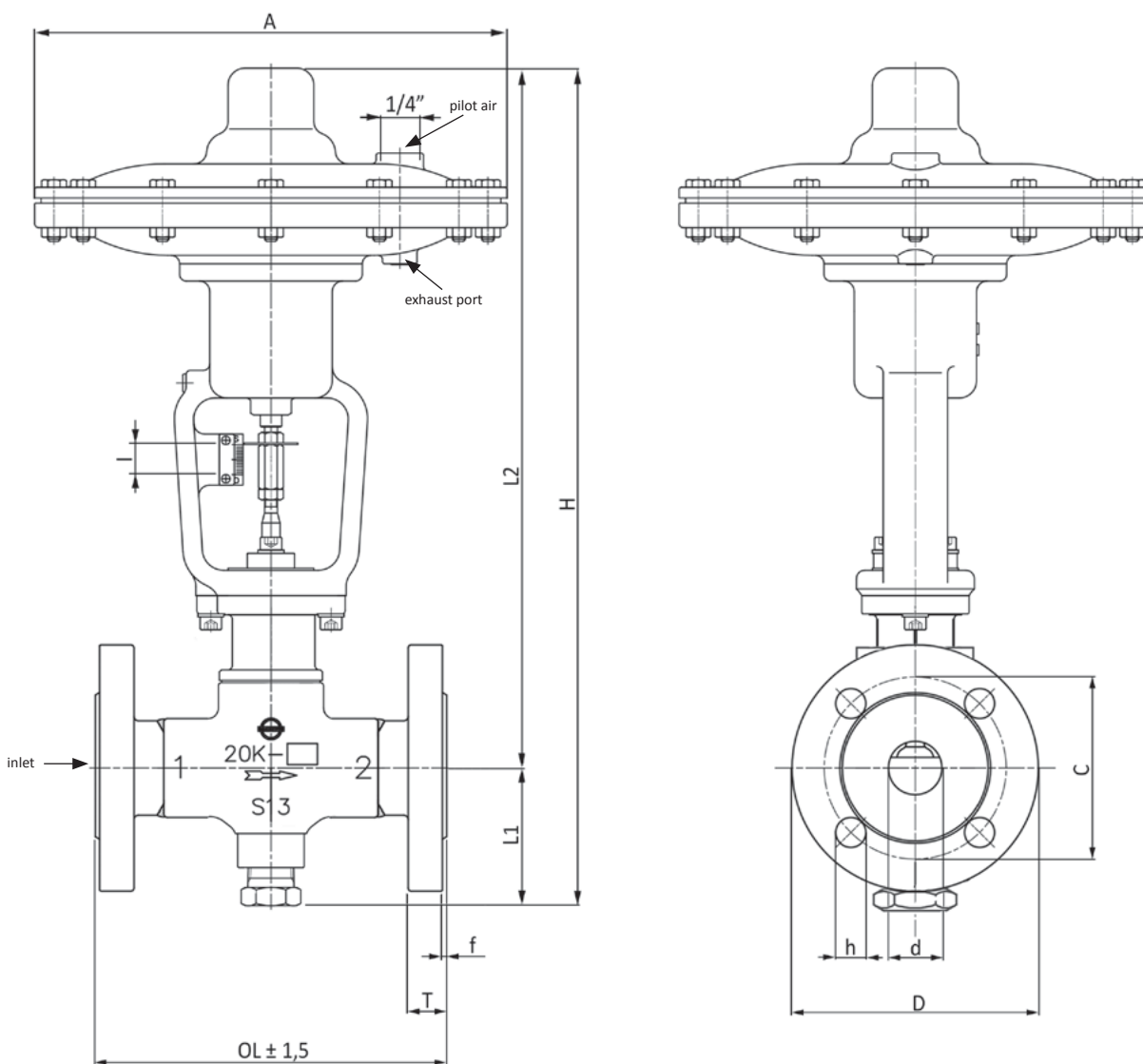
3

No.	Name	Valve	DC-1221-15* DC-1221-20*	DC-1221-25*
1	Body		D-22115-01*	D-22125-01*
2	Yoke		D-21115-02	D-21125-02
3	Lower cover		D-21115-03	D-21125-03
4	Upper cover		D-21115-04*	D-21125-04*
5	Stem		D-21115-05	D-21125-05
6	Diaphragm rod		D-21115-06	D-21125-06
7	Bonnet		D-21115-07	D-21125-07
10	Rod guide		D-21115-10	D-21125-10
11	Packing washer		D-21115-11	D-21125-11
12	Gland		D-21115-12	D-21125-12
13	Adjust rod guide		D-21115-13	D-21125-13
14	Spring seat		D-21115-14	D-21125-14
15	Washer		D-21115-15	D-21125-15
16	Diaphragm lower seat		D-21115-16	D-21125-16
17	Diaphragm upper seat		D-21115-17	D-21125-17
19	Join nut		D-21115-19	D-21125-19
20	Orifice plug		D-21115-20	D-21125-20
21	Lift gauge ring		D-21115-21	D-21125-21
22	Lift gauge plate		D-21115-22	D-21125-22

* please complete: N = NPT thread, P = PT thread, B = BSPT thread

No.	Name	Valve	DC-1221-15* DC-1221-20*	DC-1221-25*
23	Set nut (left)		D-21115-23	D-21125-23
24	Set nut (right)		D-21115-24	D-21125-24
25	Nut		D-21115-25	D-21125-25
26	Spring lock washer		D-21115-2	D-21125-26
27	Socket cap screw (6)		D-21115-27	D-21125-27
28	Hexagon head screw (12)		D-21115-28	D-21125-28
29	Nut (12)		D-21115-29	D-21125-29
30	Socket cap screw		D-21115-30	D-21125-30
31	Socket cap screw (2)		D-21115-31	D-21125-31
32	Spring lock washer (2)		D-21115-32	D-21125-32
33	Socket cap screw (2)		D-21115-33	D-21125-33
34	Spring lock washer (2)		D-21115-34	D-21125-34
36	Driving screw (2)		D-21115-36	D-21115-36
37	Packing spring		D-21115-37	D-21125-37
38	Spring		D-21115-38	D-21125-38
39	Gland packing		D-21115-39	D-21125-39
40	Diaphragm		D-21115-40	D-21125-40
41	Dust seal		D-21115-41	D-21125-41
42	Gasket		D-21115-42	D-21125-42
43	Plug		D-22115-43	D-22115-43

Dimensions (mm)



DC valve, with flange, 2/2-way, NO

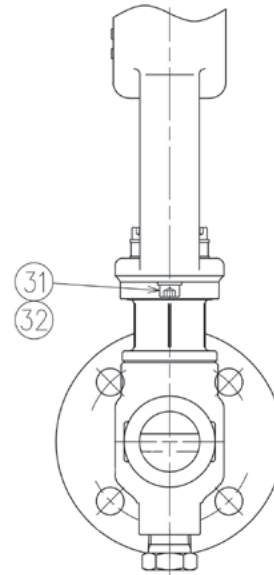
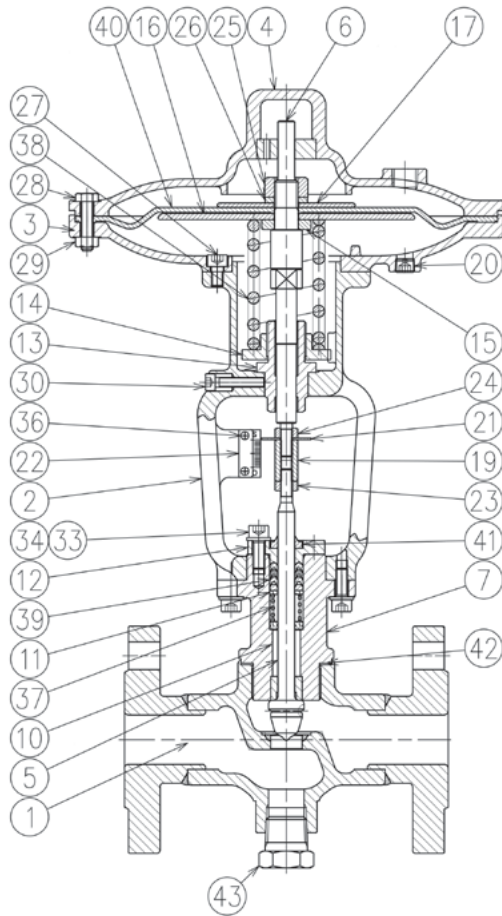
Model No.	DN	A	H	L1	L2	OL (DIN)	OL (ANSI)	OL (JIS)	I = Stroke	Weight (lbs)
DC-1222-15AN	15	220	378.5	54.7	323.8	154	150	154	14	20.1
DC-1222-20AN	20	220	378.5	54.7	323.8	154	162	154	14	21.2
DC-1222-25AN	25	220	393.6	64.8	328.8	164	163	164	14	22.9

Dimensions for ANSI flange

DN	D	C	G	T	f	N	h
15	95	66.5	35	14.5	1.6	4	15
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19

* Also available as version D with DIN flange or J with JIS flange.

Spare parts



3

No.	Name	Valve	DC-1222-15#*	DC-1222-20#*	DC-1222-25#*
1	Body		D-22115-01#*	D-22120-01#*	D-22125-01#*
2	Yoke		D-21115-02	D-21115-02	D-21125-02
3	Lower cover		D-21115-03	D-21115-03	D-21125-03
4	Upper cover		D-21115-04*	D-21115-04*	D-21125-04*
5	Stem		D-22115-05	D-22115-05	D-22125-05
6	Diaphragm rod		D-21115-06	D-21115-06	D-21125-06
7	Bonnet		D-22115-07	D-22115-07	D-22125-07
8	Bottom plug		D-21115-08	D-21115-08	D-21125-08
10	Rod guide		D-21115-10	D-21115-10	D-21125-10
11	Packing washer		D-21115-11	D-21115-11	D-21125-11
12	Gland		D-21115-12	D-21115-12	D-21125-12
13	Adjust rod guide		D-21115-13	D-21115-13	D-21125-13
14	Spring seat		D-21115-14	D-21115-14	D-21125-14
15	Washer		D-21115-15	D-21115-15	D-21125-15
16	Diaphragm lower seat		D-21115-16	D-21115-16	D-21125-16
17	Diaphragm upper seat		D-21115-17	D-21115-17	D-21125-17
19	Join nut		D-21115-19	D-21115-19	D-21125-19
20	Orifice plug		D-21115-20	D-21115-20	D-21125-20
21	Lift gauge ring		D-21115-21	D-21115-21	D-21125-21
22	Lift gauge plate		D-21115-22	D-21115-22	D-21125-22

No.	Name	Valve	DC-1222-15D*	DC-1222-20D*	DC-1222-25D*
23	Set nut (left)		D-21115-23	D-21115-23	D-21125-23
24	Set nut (right)		D-21115-24	D-21115-24	D-21125-24
25	Nut		D-21115-25	D-21115-25	D-21125-25
26	Spring lock washer		D-21115-26	D-21115-26	D-21125-26
27	Socket cap screw (6)		D-21115-27	D-21115-27	D-21125-27
28	Hexagon head screw (12)		D-21115-28	D-21115-28	D-21125-28
29	Nut (12)		D-21115-29	D-21115-29	D-21125-29
30	Socket cap screw		D-21115-30	D-21115-30	D-21125-30
31	Socket cap screw (2)		D-21115-31	D-21115-31	D-21125-31
32	Spring lock washer (2)		D-21115-32	D-21115-32	D-21125-32
33	Socket cap screw (2)		D-21115-33	D-21115-33	D-21125-33
34	Spring lock washer (2)		D-21115-34	D-21115-34	D-21125-34
36	Driving screw (2)		D-21115-36	D-21115-36	D-21125-36
37	Packing spring		D-21115-37	D-21115-37	D-21125-37
38	Spring		D-21115-38	D-21115-38	D-21125-38
39	Gland packing		D-21115-39	D-21115-39	D-21125-39
40	Diaphragm		D-21115-40	D-21115-40	D-21125-40
41	Dust seal		D-21115-41	D-21115-41	D-21125-41
42	Gasket		D-21115-42	D-21115-42	D-21125-42
43	Plug		D-22115-43	D-22115-43	D-22125-43

please complete: A = ANSI flange, D = DIN flange, J = JIS flange

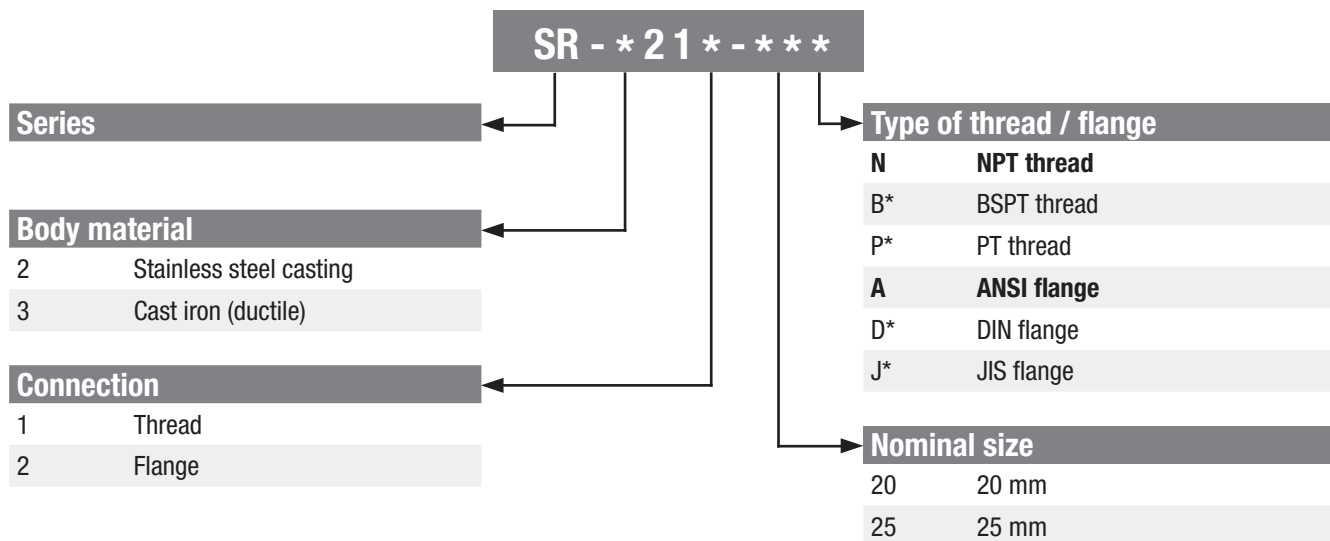
* please complete: N = NPT thread, P = PT thread, B = BSPT thread

These valves are designed to control the flow of steam, nitrogen and air. They guarantee highly accurate process control. The output pressure can be varied by means of remote setting (pressure reduction of the pilot control air).

Operating pressure	max. 188 psi
Back pressure	max. 84 psi
Pilot pressure	2,9 - 14,5 psi
Pressure class	300
Temperature range	max + 401°F
Medium	Steam, Nitrogen, Air
Body material	Stainless steel casting
Stem and seat material	Stainless steel
Packing material	Graphite-reinforced Teflon®
Seal type	Graphite-reinforced Teflon®



Order Code

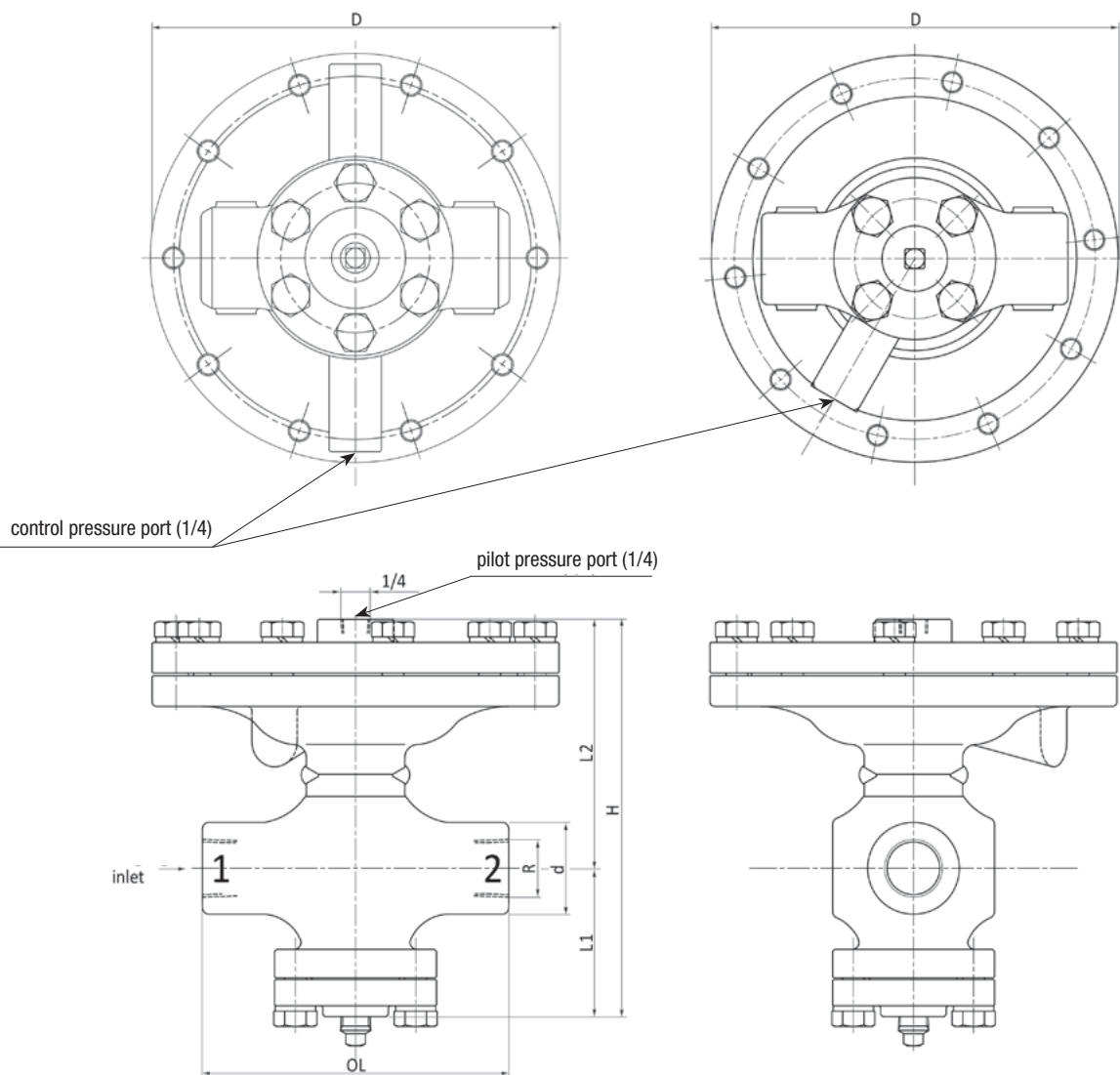


* Available on Request. Not a stock item.

Dimensions (mm)

SR-2 series BSPT thread

SR-2 series NPT- and PT thread, SR-3 series



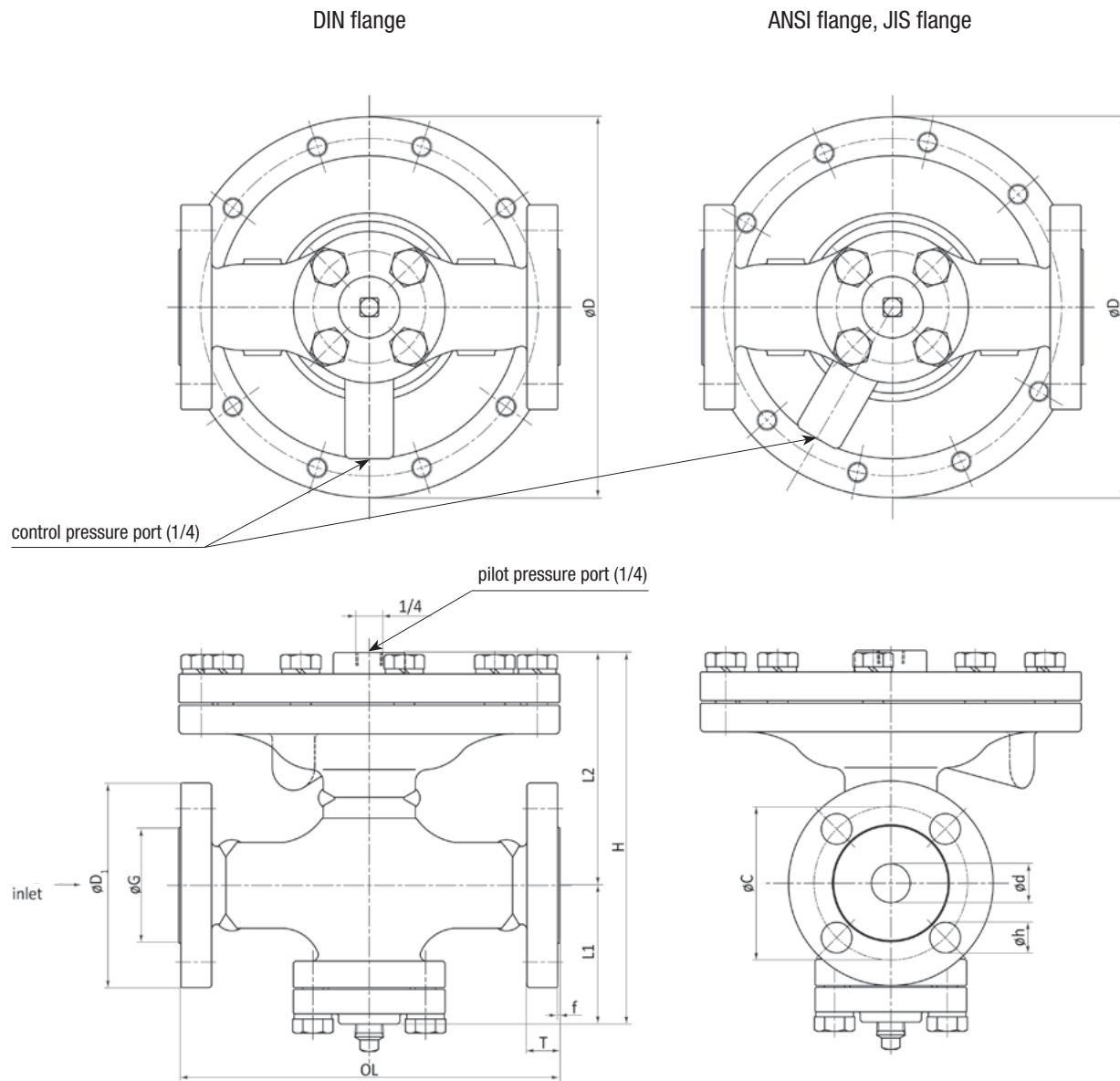
SR Process regulating valve, tapped

Model No.	DN	Internal thread R*	D	d	H	L1	L2	OL	Weight (lbs)
SR-2211-20*	20	3/4"	186	42	181	68	113	140	18.5
SR-2211-25*	25	1"	228	48	205	77	128	165	29.5
SR-3211-20*	20	3/4"	186	46	181	68	113	140	19.0
SR-3211-25*	25	1"	228	52	205	77	128	165	30.2

*Thread type NPT. Valves with BSPT (Rc) according to ISO 7-1 DIN EN 10226/1 or PT thread are available on request. (The dimensions are identical to the standard NPT version.)

Refer to order code on page 35.

Dimensions (mm)



SR Process regulating valve, with flange

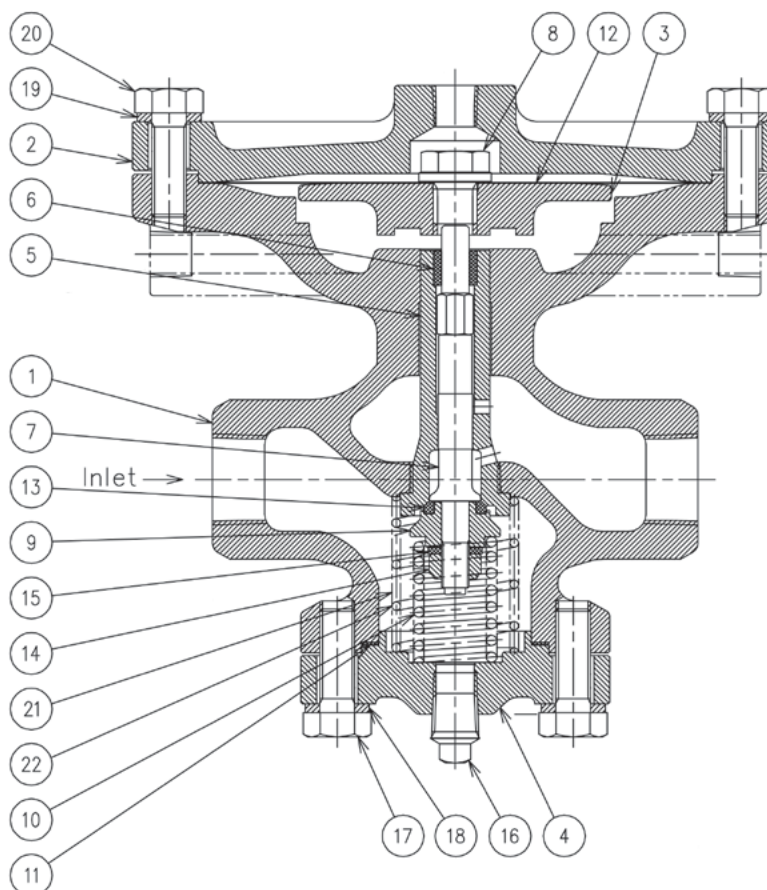
Model No.	DN	D	H	L1	L2	OL (DIN)	OL (ANSI)	OL (JIS)	Weight (lbs)
SR-2212-20A*	20	186	181	68	113	190	190	186	24.3
SR-2212-25A*	25	228	205	77	128	215	215	212	35.7

Dimensions for ANSI flange

DN	D ₁	C	G	T	f	N	h
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19

* Also available as version D with DIN flange or J with JIS flange.

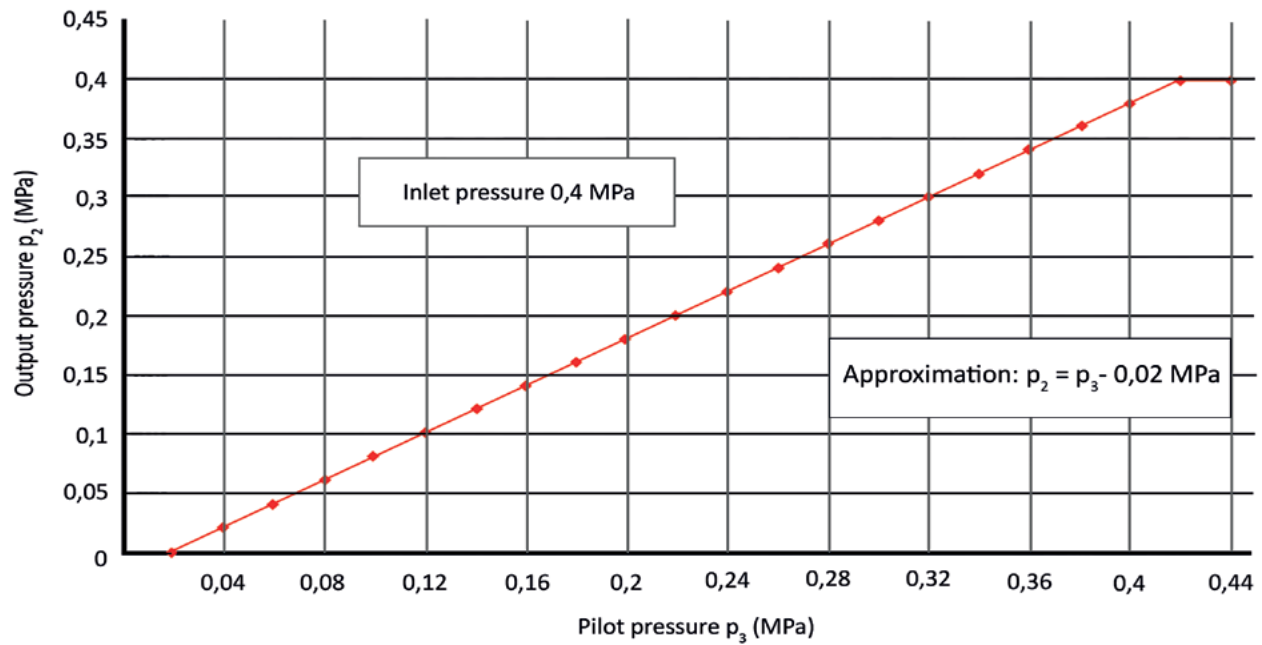
Spare parts



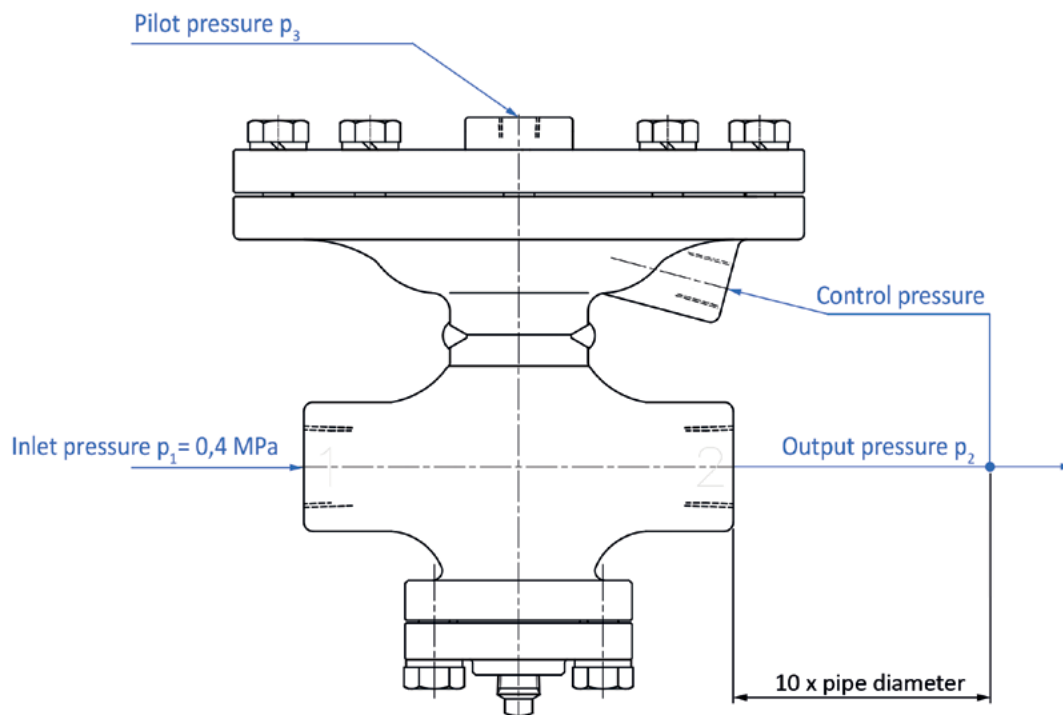
No.	Name	Valve	SR-2111-20*	SR-2111-25*	SR-3111-20*	SR-3111-25*	SR-2212-20D	SR-2212-25D
1	Body		R-21120-01*	R-21125-01*	R-31120-01*	R-31125-01*	R-21120-01D	R-21125-01D
2	Cover		R-21120-02*	R-21125-02*	R-21120-02*	R-21125-02*	R-21120-02*	R-21125-02*
3	Diaphragm plate		R-21120-03	R-21125-03	R-21120-03	R-21125-03	R-21120-03	R-21125-03
4	Bottom cover		R-21120-04	R-21125-04	R-31120-04	R-31125-04	R-21120-04	R-21125-04
5	Center seat		R-21120-05	R-21125-05	R-21120-05	R-21125-05	R-21120-05	R-21125-05
6	Guide bushing		R-21120-06	R-21125-06	R-21120-06	R-21125-06	R-21120-06	R-21125-06
7	Center rod		R-21120-07	R-21125-07	R-21120-07	R-21125-07	R-21120-07	R-21125-07
8	Screw		R-21120-08	R-21125-08	R-21120-08	R-21125-08	R-21120-08	R-21125-08
9	Disc adapter		R-21120-09	R-21125-09	R-21120-09	R-21125-09	R-21120-09	R-21125-09
10	Disc spring		R-21120-10	R-21125-10	R-21120-10	R-21125-10	R-21120-10	R-21125-10
11	Gasket		R-21120-11	R-21125-11	R-31120-11	R-31125-11	R-21120-11	R-21125-11
12	Diaphragm (2)		R-21120-12	R-21125-12	R-21120-12	R-21125-12	R-21120-12	R-21125-12
13	Disc ring		R-21120-13	R-21125-13	R-21120-13	R-21125-13	R-21120-13	R-21125-13
14	U-Nut		R-21120-14	R-21125-14	R-21120-14	R-21125-14	R-21120-14	R-21125-14
15	Spring washer		R-21120-15	R-21125-15	R-21120-15	R-21125-15	R-21120-15	R-21125-15
16	Plug		R-21120-16	R-21125-16	R-21120-16	R-21125-16	R-21120-16	R-21125-16
17	Hex head screw		R-21120-17 (4)	R-21125-17 (4)	R-31120-17 (6)	R-31125-17 (6)	R-21120-17 (4)	R-21125-17 (4)
18	Spring washer		R-21120-18 (4)	R-21125-18 (4)	R-21120-18 (6)	R-21125-18 (6)	R-21120-18 (4)	R-21125-18 (4)
19	Spring washer (10)		R-21120-19	R-21125-19	R-21120-19	R-21125-19	R-21120-19	R-21125-19
20	Hex head screw (10)		R-21120-20	R-21125-20	R-21120-20	R-21125-20	R-21120-20	R-21125-20
21	Filter		-	-	R-31120-21	R-31125-21	-	-
22	Filter spring		-	-	R-31120-22	R-31125-22	-	-

* please complete: N = NPT thread, P = PT thread, B = BSPT thread

Ratio between pilot pressure and output pressure

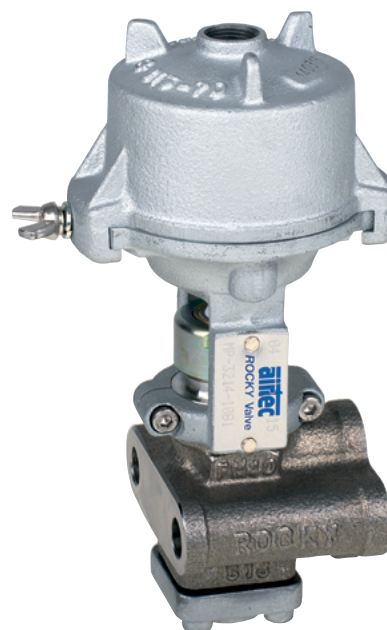


4

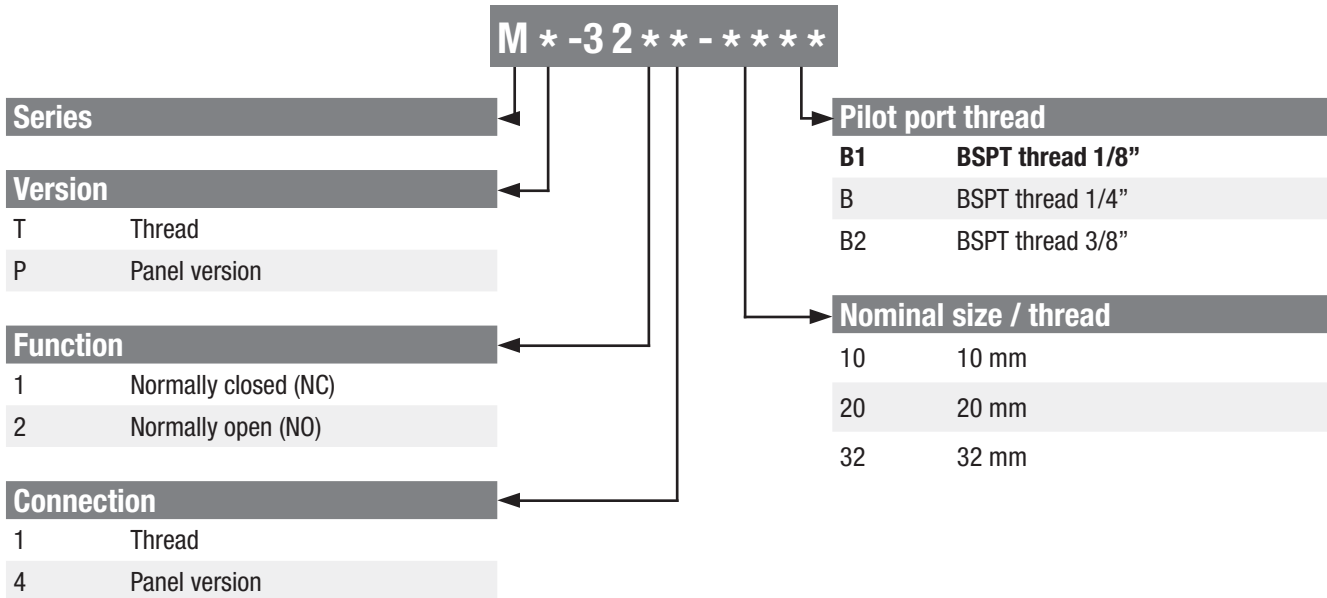


These valves are designed for the use with Steam, Hot Water, Cold Water, Air, Gas or on Vacuum Service. This valves are especially made for manifold block application. The design based on the long field proven TPC series in the tire industry.

Operating pressure	max. 580 psi
Back pressure	max. 362 psi
Pilot pressure	65 - 101psi
Pressure class	300
Temperature range	- 22°F to + 419°F
Medium	Steam, Nitrogen, Air
Body material	Stainless steel casting
Stem and seat material	Stainless steel
Packing material	Graphite-reinforced Teflon®
Seal type	Carbon Teflon®

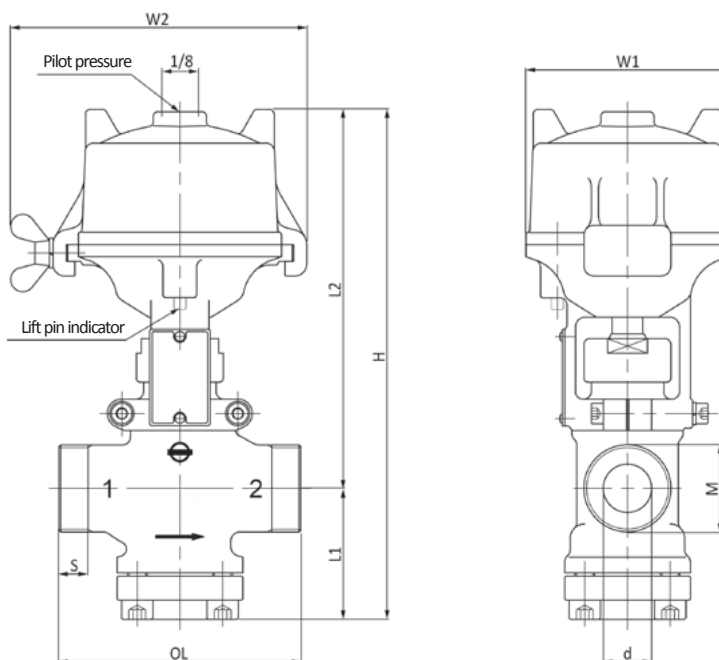


Order Code

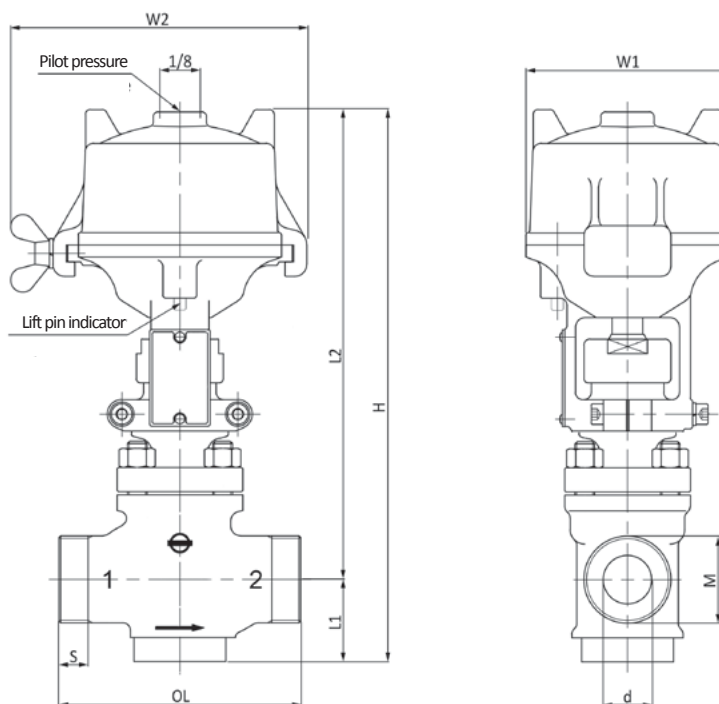


Dimensions (mm)

MT-3211
normally closed



MT-3221
normally open



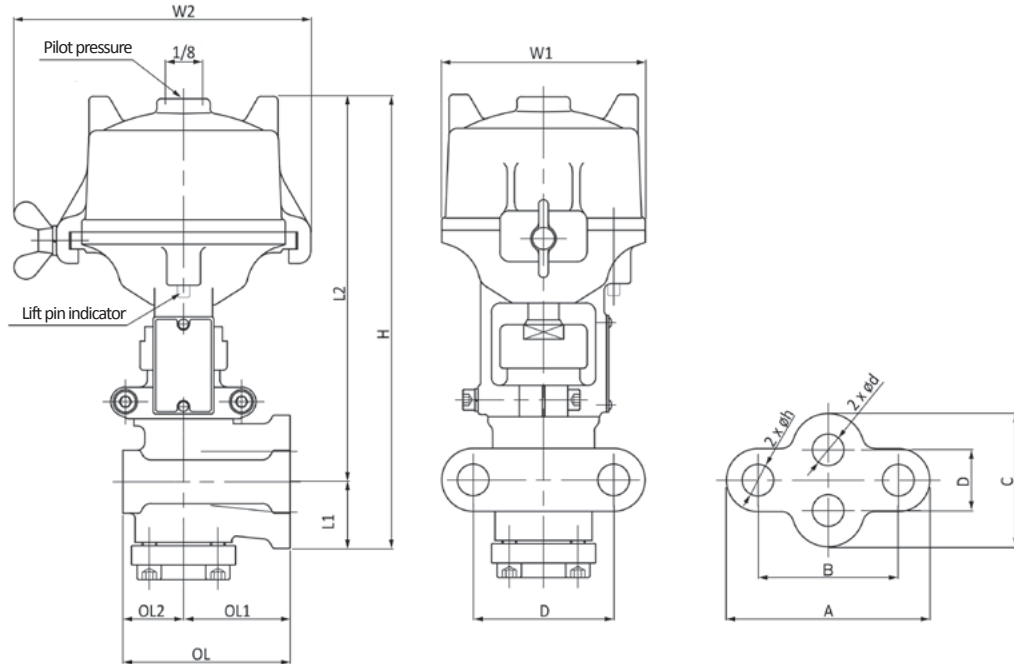
MT valve, tapped

Model No.	DN	d	OL	M	S	L1	L2	H	W ₁	W ₂	Weight (lbs)
MT-3211-10*	10	13	76	M25 x 1.5	11	45.3	153	198.3	84	112	5.5
MT-3211-20*	20	20	100	M36 x 2.0	12	54.3	157	211.3	84	112	6.6
MT-3221-10*	10	13	76	M25 x 1.5	11	30	185.3	215.3	84	112	5.7
MT-3221-20*	20	20	100	M36 x 2.0	12	36	194.3	230.3	84	112	7.1

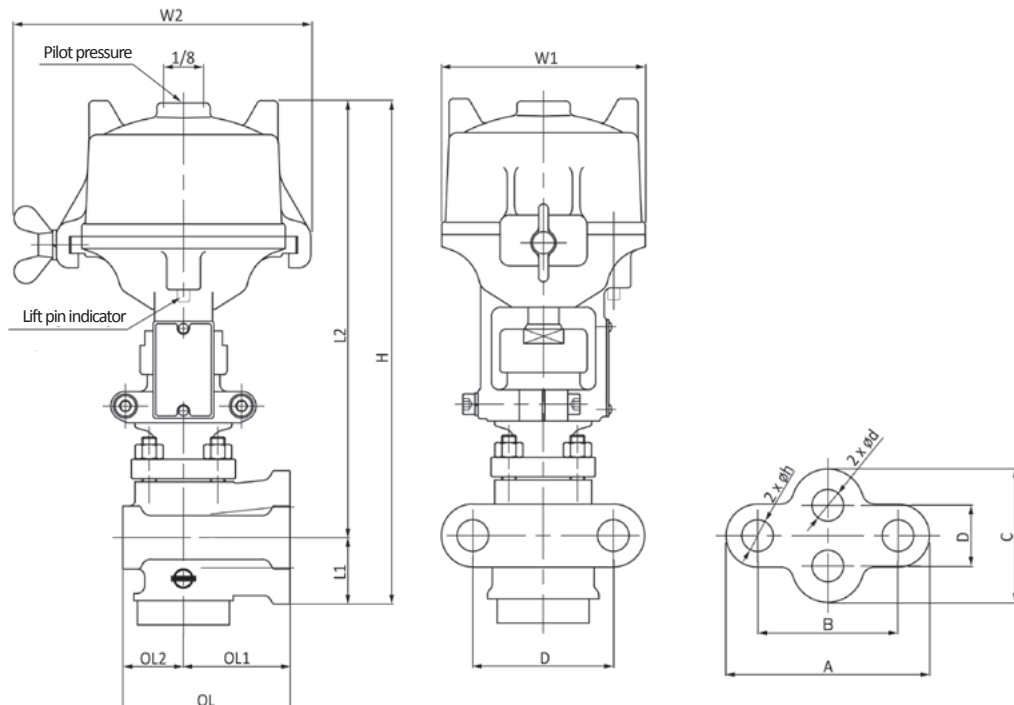
* please complete: B1 = 1/8", B = 1/4", B2 = 3/8"

Dimensions (mm)

MP-3214
normally closed



MP-3224
normally open



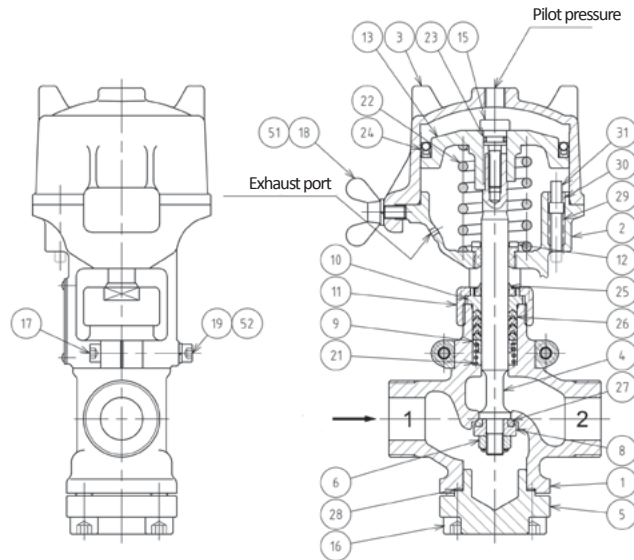
MT valve, panel version

Model No.	DN	d	OL1	OL2	OL	L1	L2	H	W ₁	W ₂	A	B	C	D	h	Weight (lbs)
MP-3214-10*	10	13	44	25	69	42.3	159	201.3	84	112	84	58	55	25	13	6.8
MP-3214-20*	20	19	53	27	80	52.8	185.5	238.3	100	128	90	64	80	40	13	10.8
MP-3214-32*	32	32	62	38	100	76.3	229	305.3	128	157	124	90	114	50	17	20.9
MP-3224-10*	10	13	44	25	69	36	182.3	218.3	84	112	84	58	55	25	13	7.1
MP-3224-20*	20	19	53	27	80	44	213.3	257.3	100	128	90	64	80	40	13	11.0

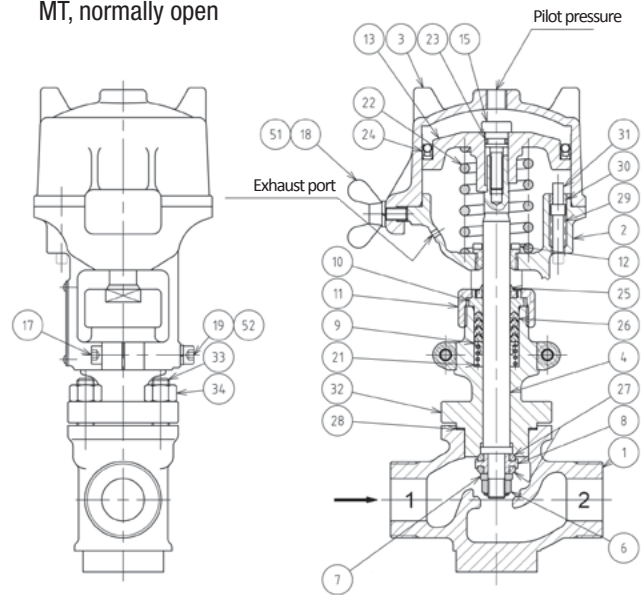
* please complete: B1 = 1/8", B = 1/4", B2 = 3/8"

Spare parts

MT, normally closed



MT, normally open



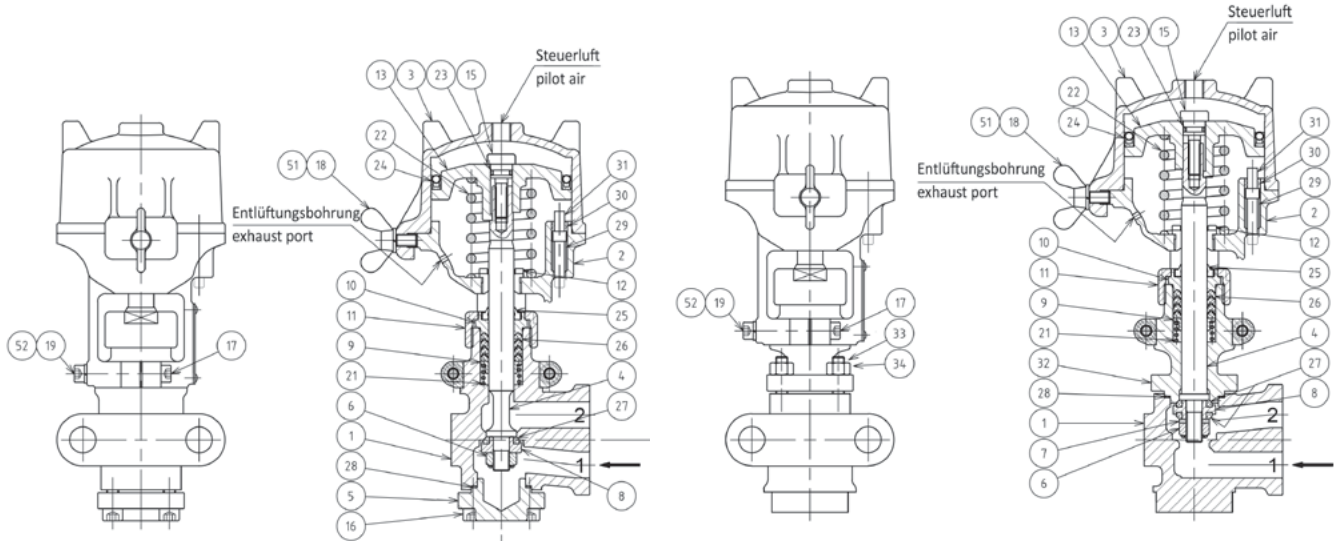
No.	Name	Valve	MT-3211-10-*	MT-3211-20-*	MT-3221-10-*	MT-3221-20-*
1	Body		MT-31115 - 01	MT-31120 - 01	MT-32115 - 01	MT-32120 - 01
2	Yoke		PP-11415 - 02	PP-11420 - 02	PP-11415 - 02	PP-11420 - 02
3	Cylinder		PP-11415 - 03 *	PP-11420 - 03 *	PP-11415 - 03 *	PP-11420 - 03 *
4	Stem		MT-31110 - 04	MT-31120 - 04	MT-32110 - 04	MT-32120 - 04
5	Lower seat		MT-31110 - 05	MT-31120 - 05	-	-
6	U-nut		C-21115 - 06	C-21120 - 06	C-21115 - 06	C-21120 - 06
7	Guide washer		-	-	C-21115 - 07	C-21120 - 07
8	Disc adapter		PP-114215 - 08	PP-114220 - 08	C-21115 - 08	C-21120 - 08
9	Ring washer		C-21115 - 09	C-21120 - 09	C-21115 - 09	C-21120 - 09
10	Gland		C-21115 - 10	C-21120 - 10	C-21115 - 10	C-21120 - 10
11	Gland nut		C-21115 - 11	C-21120 - 11	C-21115 - 11	C-21120 - 11
12	Guide bushing		C-21115 - 12	C-21120 - 12	C-21115 - 12	C-21120 - 12
13	Piston		MT-31110 - 13	MT-31120 - 13	MT-31110 - 13	MT-31120 - 13
15	Tension bolt		C-21115 - 15	C-21120 - 15	C-21115 - 15	C-21120 - 15
16	Socket cap screw		C-21115 - 16	C-21120 - 16	C-21115 - 16	C-21120 - 16
17	Socket cap screw		C-21115 - 17	C-21120 - 17	C-21115 - 17	C-21120 - 17
18	Wing bolt		C-21115 - 18	C-21120 - 18	C-21115 - 18	C-21120 - 18
19	Socket cap screw		C-21115 - 19	C-21120 - 19	C-21115 - 19	C-21120 - 19
21	Packing spring		C-21115 - 21	C-21120 - 21	C-21115 - 21	C-21120 - 21
22	Piston Spring		MT-31110 - 22	MT-31120 - 22	MT-32110 - 22	MT-32120 - 22
23	O-ring		C-21115 - 23	C-21120 - 23	C-21115 - 23	C-21120 - 23
24	Piston ring		PP-11415 - 24	PP-11420 - 24	PP-11415 - 24	PP-11420 - 24
25	Dust seal		C-21115 - 25	C-21120 - 25	C-21115 - 25	C-21120 - 25
26	Gland packing		C-21115 - 27	C-21120 - 27	C-21115 - 27	C-21120 - 27
27	Disc ring (2x)		C-21115 - 28	C-21120 - 28	C-21115 - 28	C-21120 - 28
28	Lower seat gasket		C-21115 - 30	C-21120 - 30	C-21115 - 30	C-21120 - 30
29	Indicator spring		PP-11415 - 29	PP-11420 - 29	PP-11415 - 29	PP-11420 - 29
30	Dry bearing		PP-11415 - 30	PP-11420 - 30	PP-11415 - 30	PP-11420 - 30
31	Lift pin gauge		PP-11415 - 31	PP-11420 - 31	PP-11415 - 31	PP-11420 - 31
32	Bonnet		-	-	MP-32410 - 32	MP-32420 - 32
33	Stud bolt		-	-	PP-12415 - 33	PP-12420 - 33
34	Nut		-	-	PP-12415 - 34	PP-12420 - 34
51	Spring lock washer		C-21115 - 51	C-21120 - 51	C-21115 - 51	C-21120 - 51
52	Spring lock washer		C-21115 - 51	C-21120 - 51	C-21115 - 51	C-21120 - 51

* please complete: B1 = 1/8", B = 1/4", B2 = 3/8"

Spare parts

MP, normally closed

MP, normally open



No.	Name	Valve	MP-3214-10-*	MP-3214-20-*	MP3214-32-*	MP-3224-10-*	MP-3224-20-*
1	Body		MP-31410 - 01	MP-31420 - 01	MP-31432 - 01	MT-32410 - 01	MT-32420 - 01
2	Yoke		PP-11415 - 02	PP-11420 - 02	PP-11432 - 02	PP-11415 - 02	PP-11420 - 02
3	Cylinder		PP-11415 - 03 *	PP-11420 - 03 *	PP-11432 - 03 *	PP-11415 - 03 *	PP-11420 - 03 *
4	Stem		MT-31420 - 04	MT-31420 - 04	MT-31432 - 04	MP-32410 - 04	MP-32420 - 04
5	Lower seat		MT-31110 - 05	MT-31120 - 05	MT-31132 - 05	-	-
6	U-nut		C-21120 - 06	C-21120 - 06	C-21120 - 06	C-21120 - 06	C-21120 - 06
7	Guide washer		-	-	-	C-21120 - 07	C-21120 - 07
8	Disc adapter		PP-11420 - 08	PP-11420 - 08	PP-11432 - 08	C-21120 - 08	C-21120 - 08
9	Ring washer		C-21115 - 09	C-21120 - 09	C-21132 - 09	C-21115 - 09	C-21120 - 09
10	Gland		C-21115 - 10	C-21120 - 10	C-21132 - 10	C-21115 - 10	C-21120 - 10
11	Gland nut		C-21115 - 11	C-21120 - 11	C-21132 - 11	C-21115 - 11	C-21120 - 11
12	Guide bushing		C-21115 - 12	C-21120 - 12	C-21132 - 12	C-21115 - 12	C-21120 - 12
13	Piston		MT-31110 - 13	MT-31120 - 13	MT-31132 - 13	MT-31110 - 13	MT-31120 - 13
15	Tension bolt		C-21115 - 15	C-21120 - 15	C-21132 - 15	C-21115 - 15	C-21120 - 15
16	Socket cap screw		C-21115 - 16	C-21120 - 16	C-21132 - 16	-	-
17	Socket cap screw		C-21115 - 17	C-21120 - 17	C-21132 - 17	C-21115 - 17	C-21120 - 17
18	Wing bolt		C-21115 - 18	C-21120 - 18	C-21132 - 18	C-21115 - 18	C-21120 - 18
19	Socket cap screw		C-21115 - 19	C-21120 - 19	C-21132 - 19	C-21115 - 19	C-21120 - 19
21	Packing spring		C-21115 - 21	C-21120 - 21	C-21132 - 21	C-21115 - 21	C-21120 - 21
22	Piston Spring		MT-31110 - 22	MT-31120 - 22	MT-31132 - 22	MT-32110 - 22	MT-32120 - 22
23	O-ring		C-21115 - 23	C-21120 - 23	C-21132 - 23	C-21115 - 23	C-21120 - 23
24	Piston ring		PP-11415 - 24	PP-11420 - 24	PP-11432 - 24	PP-11415 - 24	PP-11420 - 24
25	Dust seal		C-21115 - 25	C-21120 - 25	C-21132 - 25	C-21115 - 25	C-21120 - 25
26	Gland packing		C-21115 - 27	C-21120 - 27	C-21132 - 27	C-21120 - 27	C-21120 - 27
27	Disc ring (2x)		C-21115 - 28	C-21120 - 28	C-21132 - 28	C-21115 - 28	C-21120 - 28
28	Lower seat gasket		C-21115 - 30	C-21120 - 30	C-21132 - 30	C-21115 - 30	C-21120 - 30
29	Indicator spring		PP-11415 - 29	PP-11420 - 29	PP-11432 - 29	PP-11415 - 29	PP-11420 - 29
30	Dry bearing		PP-11415 - 30	PP-11420 - 30	PP-11432 - 30	PP-11415 - 30	PP-11420 - 30
31	Lift pin gauge		PP-11415 - 31	PP-11420 - 31	PP-11432 - 31	PP-11415 - 31	PP-11420 - 31
32	Bonnet		-	-	-	MP-32410 - 32	MP-32420 - 32
33	Stud bolt		-	-	-	PP-12415 - 33	PP-12420 - 33
34	Nut		-	-	-	PP-12415 - 34	PP-12420 - 34
51	Spring lock washer		C-21115 - 51	C-21120 - 51	C-21132 - 51	C-21115 - 51	C-21120 - 51
52	Spring lock washer		C-21115 - 51	C-21120 - 51	C-21132 - 51	C-21115 - 51	C-21120 - 51

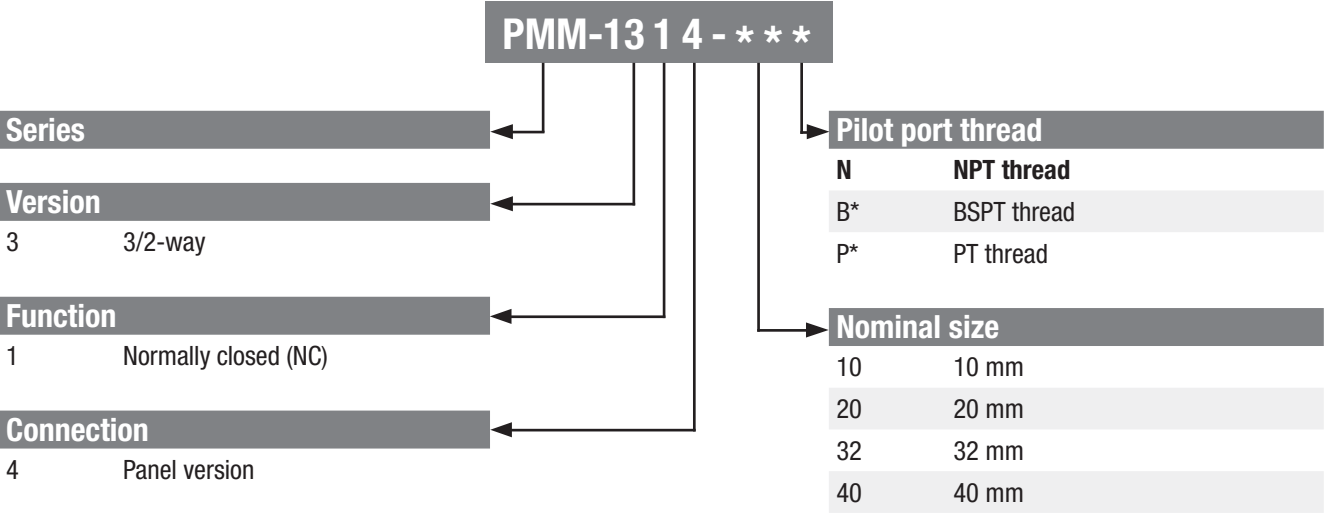
* please complete: B1 = 1/8", B = 1/4", B2 = 3/8"

These valves are designed for the use with Steam, Hot Water, Cold Water, Air, Gas or on Vacuum Service. This valves are especially made for manifold block application. The design based on the long field proven TPC series in the tire industry.

Operating pressure	max. 580 psi
Back pressure	max. 362 psi
Pilot pressure	36 - 51 psi
Pressure class	300
Temperature range	- 22°F to + 419°F
Medium	Steam, Nitrogen, Air
Body material	Stainless steel casting
Stem and seat material	Stainless steel
Packing material	Graphite-reinforced Teflon®
Seal type	Carbon Teflon®

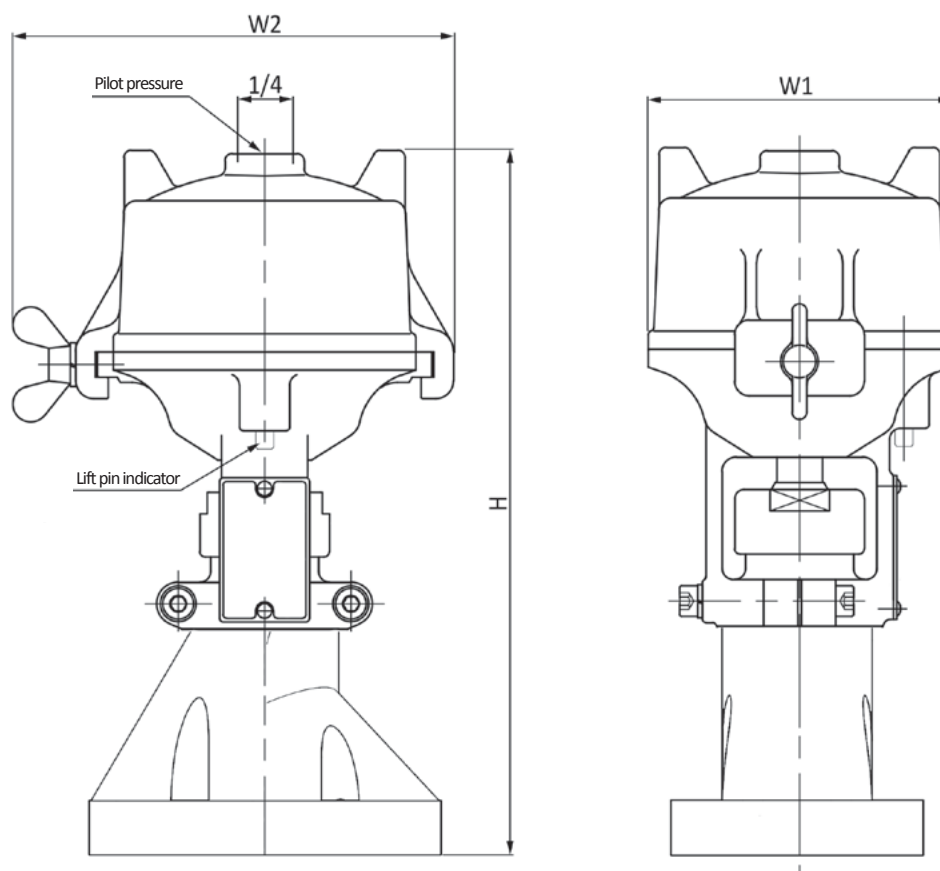


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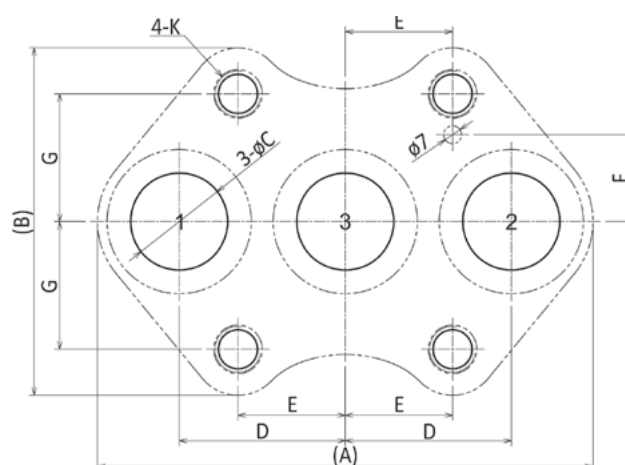


* Available on Request. Not a stock item.

Dimensions (mm)

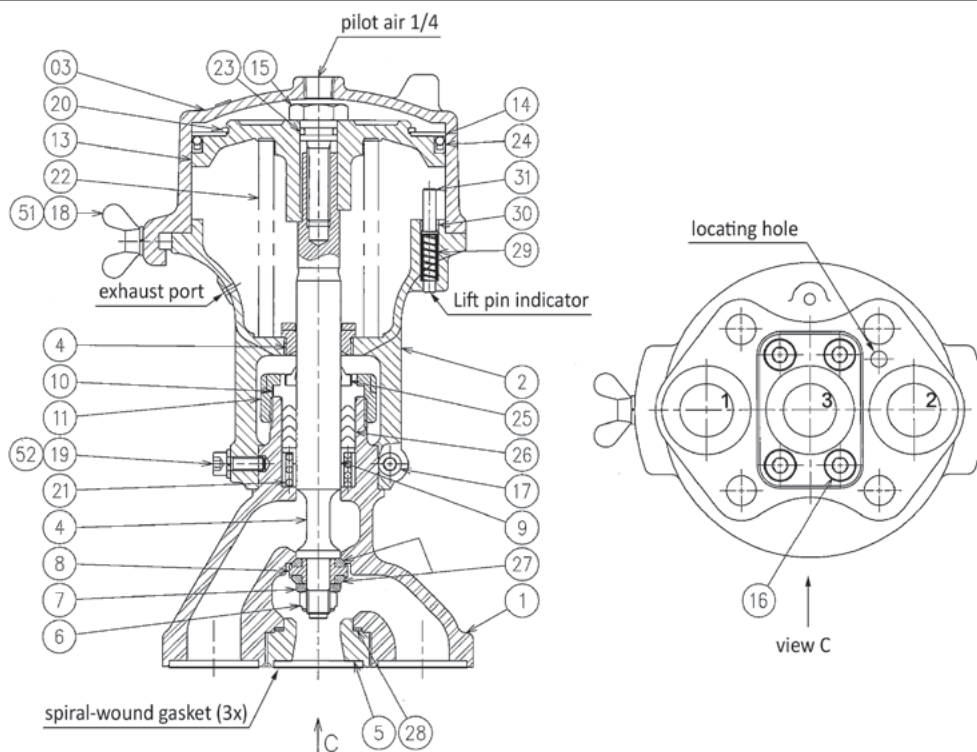


Foot print dimension



Model No.	DN	A	B	C	D	E	F	G	H	K	W1	W2	Weight (lbs)
PMM-1314-20B	20	118	84	19	40	27	18	30	222.5	M12	100	139	9.5
PMM-1314-25B	25	134	98	23	45	30	22	35	257	M12	128	169	15.2
PMM-1314-32B	32	166	120	32	55	37	30	45	292	M16	142	185	21.6
PMM-1314-40B	40	194	136	38	65	42	34	50	353	M18	170	211	36.6

Spare parts



No.	Name	Valve	PMM-1314-20B	PMM-1314-25B	PMM-1314-32B	PMM-1314-40B
1	Body		PM-11420 - 01	PM-11425 - 01	PM-11432 - 01	PM-11440 - 01
2	Yoke		PP-11420 - 02	PP-11425 - 02	PP-11432 - 02	PP-11440 - 02
3	Cylinder		PP-11420 - 03 *	PP-11425 - 03 *	PP-11432 - 03 *	PP-11440 - 03 *
4	Stem		PM-11420 - 04	PM-11425 - 04	PM-11432 - 04	PM-11440 - 04
5	Lower seat		PM-11420 - 05	PM-11425 - 05	PM-11432 - 05	PM-11440 - 05
6	U-nut		C-21120 - 06	C-21125 - 06	C-21132 - 06	C-21140 - 06
7	Guide washer		C-21120 - 07	C-21125 - 07	C-21132 - 07	C-21140 - 07
8	Disc adapter		C-21120 - 08	C-21125 - 08	C-21132 - 08	C-21140 - 08
9	Ring washer		C-21120 - 09	C-21125 - 09	C-21132 - 09	C-21140 - 09
10	Gland		C-21120 - 10	C-21125 - 10	C-21132 - 10	C-21140 - 10
11	Gland nut		C-21120 - 11	C-21125 - 11	C-21132 - 11	C-21140 - 11
12	Guide bushing		C-21120 - 12	C-21125 - 12	C-21132 - 12	C-21140 - 12
13	Piston		PP-11420 - 13	PP-11425 - 13	PP-11432 - 13	PP-11440 - 13
14	Ring plate		PP-11420 - 14	PP-11425 - 14	PP-11432 - 14	PP-11440 - 14
15	Tension bolt		C-21120 - 15	C-21125 - 15	C-21132 - 15	C-21140 - 15
16	Socket cap screw		-	-	-	-
17	Socket cap screw		C-21120 - 17	C-21125 - 17	C-21132 - 17	C-21140 - 17
18	Wing bolt		C-21120 - 18	C-21125 - 18	C-21132 - 18	C-21140 - 18
19	Socket cap screw		C-21120 - 19	C-21125 - 19	C-21132 - 19	C-21140 - 19
20	Retaining ring		PP-11420 - 20	PP-11425 - 20	PP-11432 - 20	PP-11440 - 20
21	Packing spring		C-21120 - 21	C-21125 - 21	C-21132 - 21	C-21140 - 21
22	Piston Spring		C-21120 - 22	C-21125 - 22	C-21132 - 22	C-21140 - 22
23	O-ring		C-21120 - 23	C-21125 - 23	C-21132 - 23	C-21140 - 23
24	Piston ring		C-21120 - 24	C-21125 - 24	C-21132 - 24	C-21140 - 24
25	Dust seal		C-21120 - 25	C-21125 - 25	C-21132 - 25	C-21140 - 25
26	Gland packing		C-21120 - 27	C-21125 - 27	C-21132 - 27	C-21140 - 27
27	Disc ring (2x)		C-21120 - 28	C-21125 - 28	C-21132 - 28	C-21140 - 28
28	Lower seat gasket		PM-11420 - 28	PM-11425 - 28	PM-11432 - 28	PM-11440 - 28
29	Indicator spring		PP-11420 - 29	PP-11425 - 29	PP-11432 - 29	PP-11440 - 29
30	Dry bearing		PP-11420 - 30	PP-11425 - 30	PP-11432 - 30	PP-11440 - 30
31	Lift pin gauge		PP-11420 - 31	PP-11425 - 31	PP-11432 - 31	PP-11440 - 31
51	Spring lock washer		C-21120 - 51	C-21125 - 51	C-21132 - 51	C-21140 - 51
52	Spring lock washer		C-21120 - 51	C-21125 - 51	C-21132 - 51	C-21140 - 51

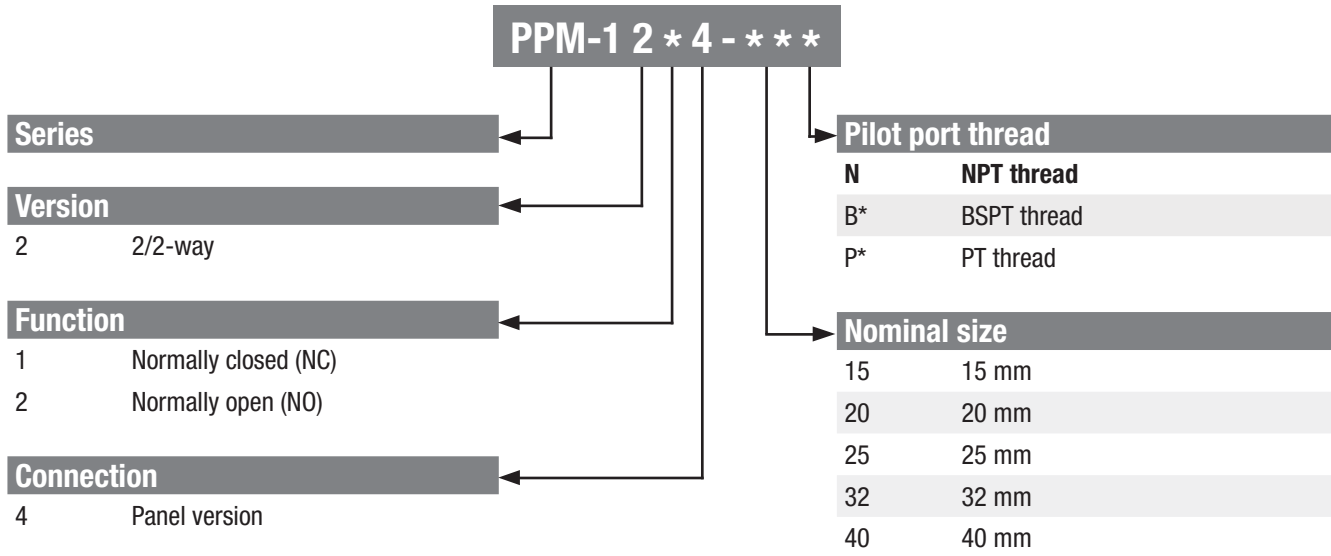
* please complete: N = NPT thread, B = BSPT thread, P = PT thread

These valves are designed for the use with Steam, Hot Water, Cold Water, Air, Gas or on Vacuum Service. This valves are especially made for manifold block application. The design based on the long field proven TPC series in the tire industry.

Operating pressure	max. 580 psi
Back pressure	max. 362 psi
Pilot pressure	36 - 51 psi
Pressure class	300
Temperature range	- 22°F to + 419°F
Medium	Steam, Nitrogen, Air
Body material	Stainless steel casting
Stem and seat material	Stainless steel
Packing material	Graphite-reinforced Teflon®
Seal type	Carbon Teflon®



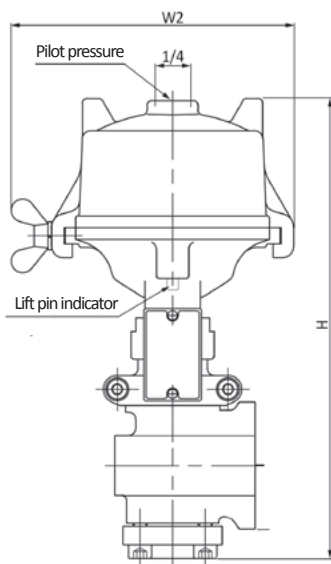
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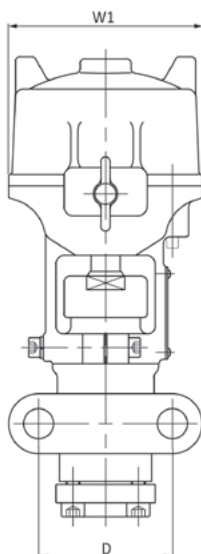
* Available on Request. Not a stock item.

Dimensions (mm)

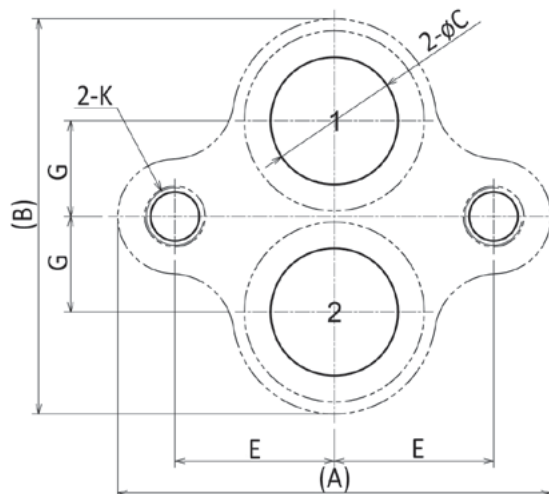
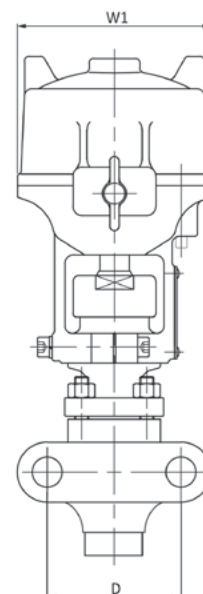
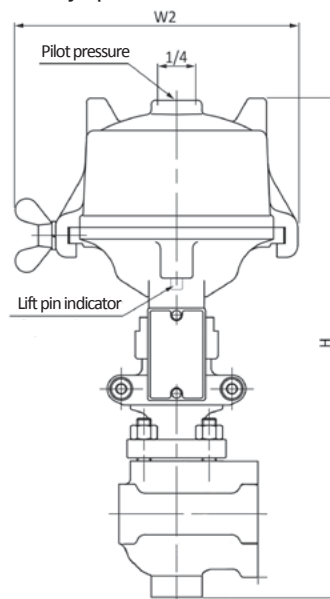
PPM-1214
normally closed



Foot print dimension



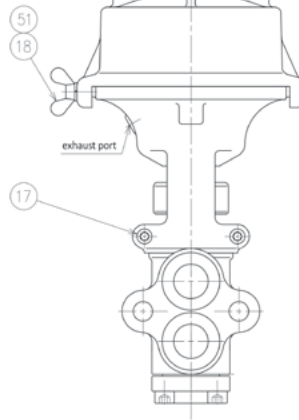
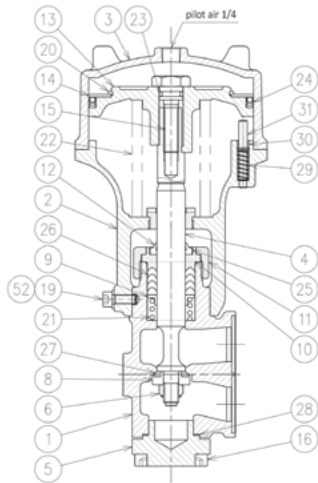
PPM-1224
normally open



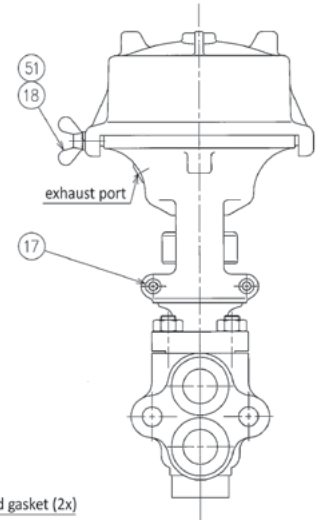
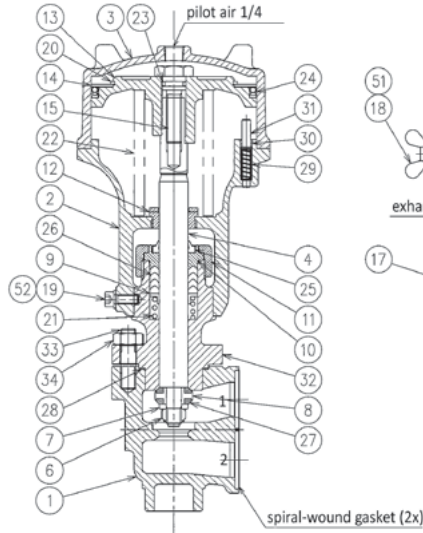
Model No.	DN	A	B	C	D	E	G	H	K	W1	W2	Weight (lbs)
PPM-1214-15B	15	78	55	13	52	26	13	200	M12	122	84	6.2
PPM-1214-20B	20	86	73	19	58	29	17.5	237.5	M12	139	100	9.5
PPM-1214-25B	25	92	84	23	64	32	20	280.5	M12	169	128	15.0
PPM-1214-32B	32	122	106	32	90	45	25	323	M16	185	142	22.3
PPM-1214-40B	40	136	124	40	100	50	30	384	M18	211	170	34.8
PPM-1224-15B	15	78	55	13	52	26	13	221	M12	122	84	6.4
PPM-1224-20B	20	86	73	19	58	29	17.5	263.5	M12	139	100	10.1
PPM-1224-25B	25	92	84	23	64	32	20	309	M12	169	128	16.5
PPM-1224-32B	32	122	106	32	90	45	25	349	M16	185	142	24.5
PPM-1224-40B	40	136	124	40	100	50	30	417	M18	211	170	38.1

Spare parts

normally closed



normally open



No.	Name	Valve	PPM-1214-15B	PPM-1214-20B	PPM-1214-25B	PPM-1214-32B	PPM-1214-40B	PPM-1224-15B	PPM-1224-20B	PPM-1224-25B	PPM-1224-32B	PPM-1224-40B
1	Body		PP-11415 - 01	PP-11420 - 01	PP-11425 - 01	PP-11432 - 01	PP-11440 - 01	PP-12415 - 01	PP-12420 - 01	PP-12425 - 01	PP-12432 - 01	PP-12440 - 01
2	Yoke		PP-11415 - 02	PP-11420 - 02	PP-11425 - 02	PP-11432 - 02	PP-11440 - 02	PP-12415 - 02	PP-12420 - 02	PP-12425 - 02	PP-12432 - 02	PP-12440 - 02
3	Cylinder		PP-11415 - 03 *	PP-11420 - 03 *	PP-11425 - 03 *	PP-11432 - 03 *	PP-11440 - 03 *	PP-11415 - 03 *	PP-11420 - 03 *	PP-11425 - 03 *	PP-11432 - 03 *	PP-11440 - 03 *
4	Stem		PP-11415 - 04	PP-11420 - 04	PP-11425 - 04	PP-11432 - 04	PP-11440 - 04	PP-12415 - 04	PP-12420 - 04	PP-12425 - 04	PP-12432 - 04	PP-12440 - 04
5	Lower seat		PP-11415 - 05	PP-11420 - 05	PP-11425 - 05	PP-11432 - 05	PP-11440 - 05	PP-11415 - 05	PP-11420 - 05	PP-11425 - 05	PP-11432 - 05	PP-11440 - 05
6	U-nut		C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21132 - 06	C-21140 - 06	C-21115 - 06	C-21120 - 06	C-21125 - 06	C-21132 - 06	C-21140 - 06
8	Disc adapter		PP-11415 - 08	PP-11420 - 08	PP-11425 - 08	PP-11432 - 08	PP-11440 - 08	PP-11415 - 08	PP-11420 - 08	PP-11425 - 08	PP-11432 - 08	PP-11440 - 08
9	Ring washer		C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21132 - 09	C-21140 - 09	C-21115 - 09	C-21120 - 09	C-21125 - 09	C-21132 - 09	C-21140 - 09
10	Gland		C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21132 - 10	C-21140 - 10	C-21115 - 10	C-21120 - 10	C-21125 - 10	C-21132 - 10	C-21140 - 10
11	Gland nut		C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21132 - 11	C-21140 - 11	C-21115 - 11	C-21120 - 11	C-21125 - 11	C-21132 - 11	C-21140 - 11
12	Guide bushing		C-21115 - 12	C-21120 - 12	C-21125 - 12	C-21132 - 12	C-21140 - 12	C-21115 - 12	C-21120 - 12	C-21125 - 12	C-21132 - 12	C-21140 - 12
13	Piston		PP-11415 - 13	PP-11420 - 13	PP-11425 - 13	PP-11432 - 13	PP-11440 - 13	PP-11415 - 13	PP-11420 - 13	PP-11425 - 13	PP-11432 - 13	PP-11440 - 13
14	Ring plate		PP-11415 - 14	PP-11420 - 14	PP-11425 - 14	PP-11432 - 14	PP-11440 - 14	PP-11415 - 14	PP-11420 - 14	PP-11425 - 14	PP-11432 - 14	PP-11440 - 14
15	Tension bolt		C-21115 - 15	C-21120 - 15	C-21125 - 15	C-21132 - 15	C-21140 - 15	C-21115 - 15	C-21120 - 15	C-21125 - 15	C-21132 - 15	C-21140 - 15
16	Socket cap screw		C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21132 - 16	C-21140 - 16	C-21115 - 16	C-21120 - 16	C-21125 - 16	C-21132 - 16	C-21140 - 16
17	Socket cap screw		C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21132 - 17	C-21140 - 17	C-21115 - 17	C-21120 - 17	C-21125 - 17	C-21132 - 17	C-21140 - 17
18	Wing bolt		C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21132 - 18	C-21140 - 18	C-21115 - 18	C-21120 - 18	C-21125 - 18	C-21132 - 18	C-21140 - 18
19	Socket cap screw		C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21132 - 19	C-21140 - 19	C-21115 - 19	C-21120 - 19	C-21125 - 19	C-21132 - 19	C-21140 - 19
20	Retaining ring		PP-11415 - 20	PP-11420 - 20	PP-11425 - 20	PP-11432 - 20	PP-11440 - 20	PP-11415 - 20	PP-11420 - 20	PP-11425 - 20	PP-11432 - 20	PP-11440 - 20
21	Packing spring		C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21132 - 21	C-21140 - 21	C-21115 - 21	C-21120 - 21	C-21125 - 21	C-21132 - 21	C-21140 - 21
22	Piston Spring		C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21132 - 22	C-21140 - 22	C-21115 - 22	C-21120 - 22	C-21125 - 22	C-21132 - 22	C-21140 - 22
23	O-ring		C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21132 - 23	C-21140 - 23	C-21115 - 23	C-21120 - 23	C-21125 - 23	C-21132 - 23	C-21140 - 23
24	Piston ring		PP-11415 - 24	PP-11420 - 24	PP-11425 - 24	PP-11432 - 24	PP-11440 - 24	PP-11415 - 24	PP-11420 - 24	PP-11425 - 24	PP-11432 - 24	PP-11440 - 24
25	Dust seal		C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21132 - 25	C-21140 - 25	C-21115 - 25	C-21120 - 25	C-21125 - 25	C-21132 - 25	C-21140 - 25
26	Gland packing		C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21132 - 27	C-21140 - 27	C-21115 - 27	C-21120 - 27	C-21125 - 27	C-21132 - 27	C-21140 - 27
27	Disc ring (2x)		C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21132 - 28	C-21140 - 28	C-21115 - 28	C-21120 - 28	C-21125 - 28	C-21132 - 28	C-21140 - 28
28	Lower seat gasket		PP-11415 - 28	PP-11420 - 28	PP-11425 - 28	PP-11432 - 28	PP-11440 - 28	PP-12415 - 28	PP-12420 - 28	PP-12425 - 28	PP-12432 - 28	PP-12440 - 28
29	Indikator spring		PP-11415 - 29	PP-11420 - 29	PP-11425 - 29	PP-11432 - 29	PP-11440 - 29	PP-11415 - 29	PP-11420 - 29	PP-11425 - 29	PP-11432 - 29	PP-11440 - 29
30	Dry bearing		PP-11415 - 30	PP-11420 - 30	PP-11425 - 30	PP-11432 - 30	PP-11440 - 30	PP-11415 - 30	PP-11420 - 30	PP-11425 - 30	PP-11432 - 30	PP-11440 - 30
31	Lift pin gauge		PP-11415 - 31	PP-11420 - 31	PP-11425 - 31	PP-11432 - 31	PP-11440 - 31	PP-11415 - 31	PP-11420 - 31	PP-11425 - 31	PP-11432 - 31	PP-11440 - 31
32	Bonnet		-	-	-	-	-	PP-12415 - 32	PP-12420 - 32	PP-12425 - 32	PP-12432 - 32	PP-12440 - 32
33	Stud bolt		-	-	-	-	-	PP-12415 - 33	PP-12420 - 33	PP-12425 - 33	PP-12432 - 33	PP-12440 - 33
34	Nut		-	-	-	-	-	PP-12415 - 34	PP-12420 - 34	PP-12425 - 34	PP-12432 - 34	PP-12440 - 34
51	Spring lock washer		C-21115 - 51	C-21120 - 51	C-21125 - 51	C-21132 - 51	C-21140 - 51	C-21115 - 51	C-21120 - 51	C-21125 - 51	C-21132 - 51	C-21140 - 51
52	Spring lock washer		C-21115 - 51	C-21120 - 51	C-21125 - 51	C-21132 - 51	C-21140 - 51	C-21115 - 51	C-21120 - 51	C-21125 - 51	C-21132 - 51	C-21140 - 51

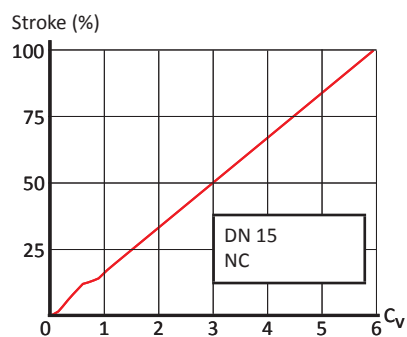
* please complete: N = NPT thread, B = BSPT thread, P = PT thread

These valves are designed to control the flow of steam, nitrogen and air. They guarantee highly accurate process control. The spring loaded gland packings are self-adjusting.

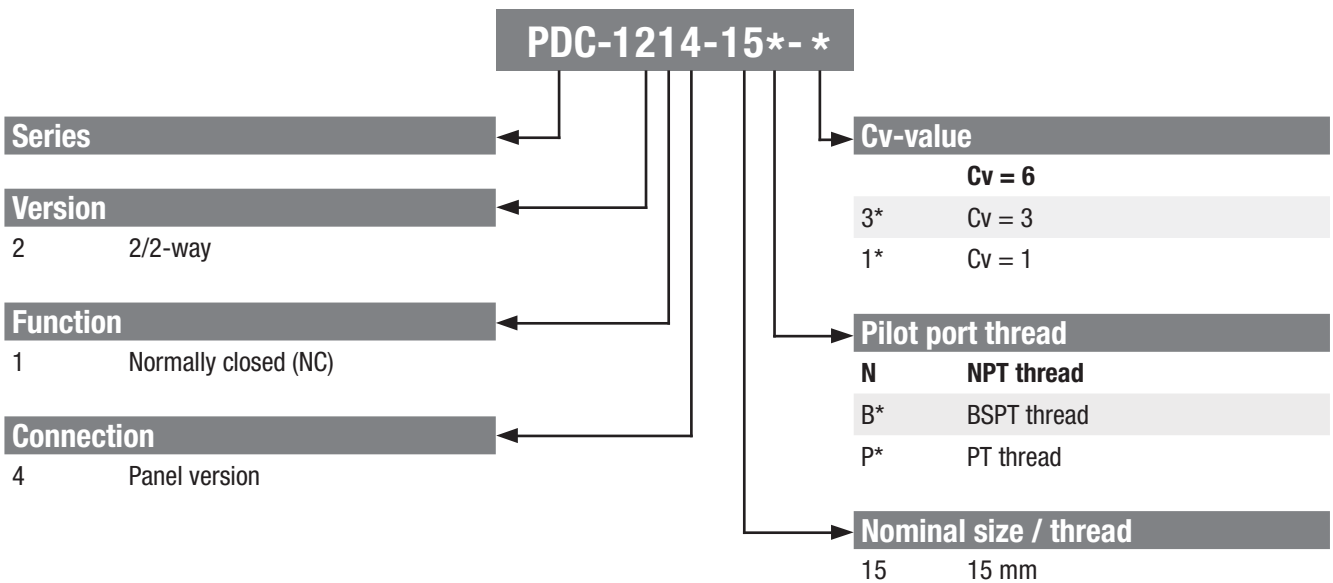
Operating pressure	max. 246 psi
Back pressure	max. 84 psi
Pilot pressure	2,9 - 14,5 psi
Pressure class	300
Temperature range	max. + 410°F
Medium	Steam, Nitrogen, Air
Body material	Stainless steel casting
Stem and seat material	Stainless steel
Packing material	Graphite-reinforced Teflon®
Seal type	Metallic seal



Regulating characteristic

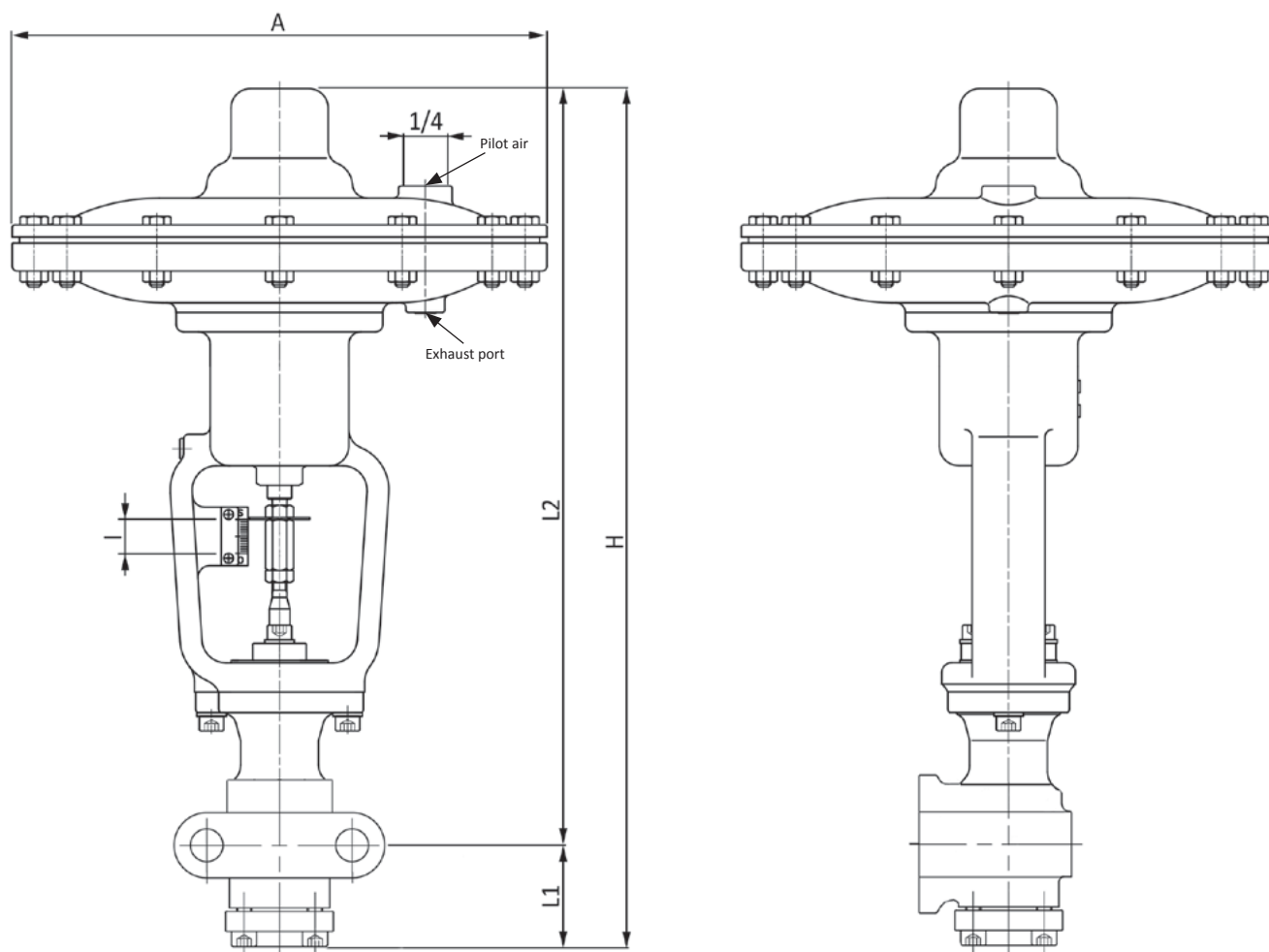


Order Code

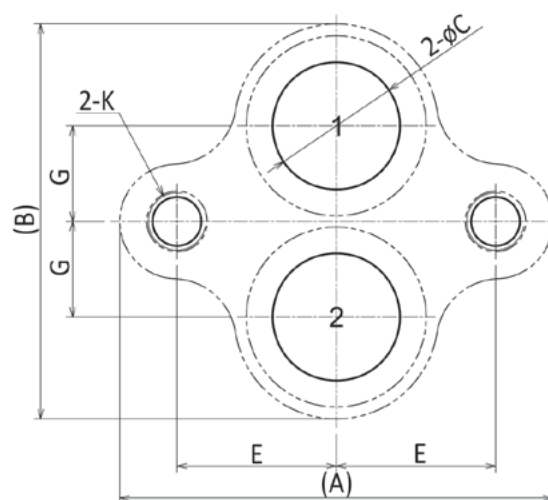


* Available on Request. Not a stock item.

Dimensions (mm)

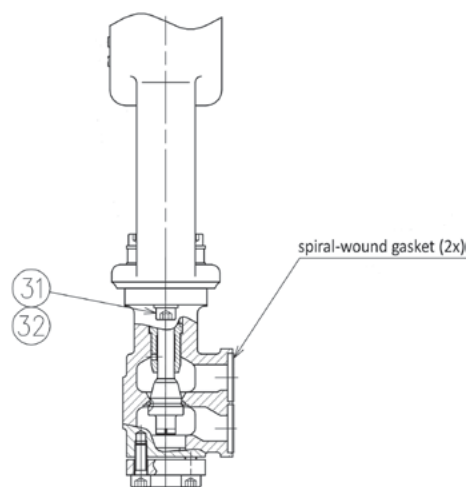
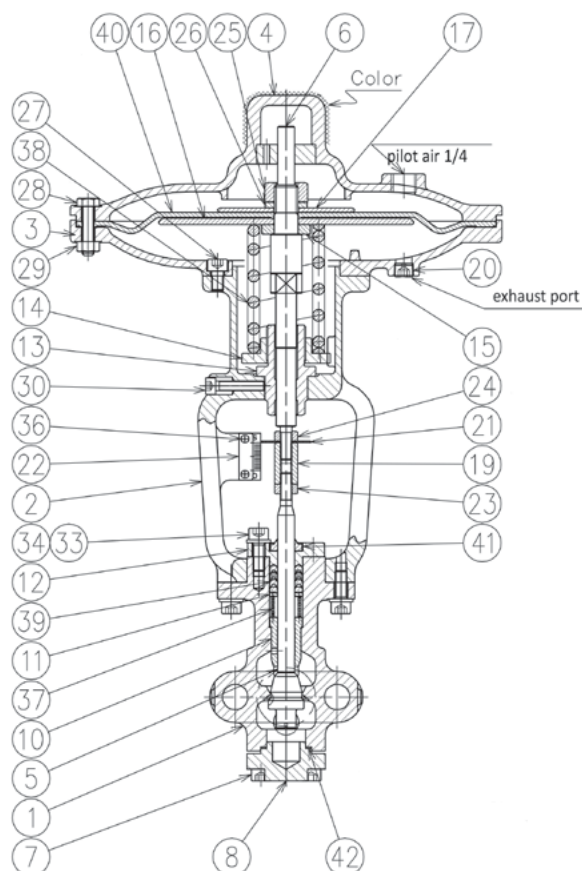


Foot print dimension



Model No.	DN	A	B	C	E	G	K	H	L1	L2	I = Stroke	Weight (lbs)
PDC-1214-15B	15	78	55	13	26	13	M12	349.3	42.8	306.5	14	15.9

Spare parts



No.	Name	Valve	PDC-1214-15B*
1	Body		PC-21115-01
2	Yoke		D-21115-02
3	Lower cover		D-21115-03
4	Upper cover		D-21115-04*
5	Stem		D-21115-05
6	Diaphragm rod		D-21115-06
7	Socket cap screw		PC-21115-07
8	Cover flangew		PC-21115-08
10	Rod guide		D-21115-10
11	Packing washer		D-21115-11
12	Gland		D-21115-12
13	Adjust rod guide		D-21115-13
14	Spring seat		D-21115-14
15	Washer		D-21115-15
16	Diaphragm lower seat		D-21115-16
17	Diaphragm upper seat		D-21115-17
19	Join nut		D-21115-19
20	Orifice plug		D-21115-20
21	Lift gauge ring		D-21115-21
22	Lift gauge plate		D-21115-22

No.	Name	Valve	PDC-1214-15B*
23	Set nut (left)		D-21115-23
24	Set nut (right)		D-21115-24
25	Nut		D-21115-25
26	Spring lock washer		D-21115-2
27	Socket cap screw (6)		D-21115-27
28	Hexagon head screw (12)		D-21115-28
29	Nut (12)		D-21115-29
30	Socket cap screw		D-21115-30
31	Socket cap screw (2)		D-21115-31
32	Spring lock washer (2)		D-21115-32
33	Socket cap screw (2)		D-21115-33
34	Spring lock washer (2)		D-21115-34
36	Driving screw (2)		D-21115-36
37	Packing spring		D-21115-37
38	Spring		D-21115-38
39	Gland packing		D-21115-39
40	Diaphragm		D-21115-40
41	Dust seal		D-21115-41
42	Gasket		PC-21115-42

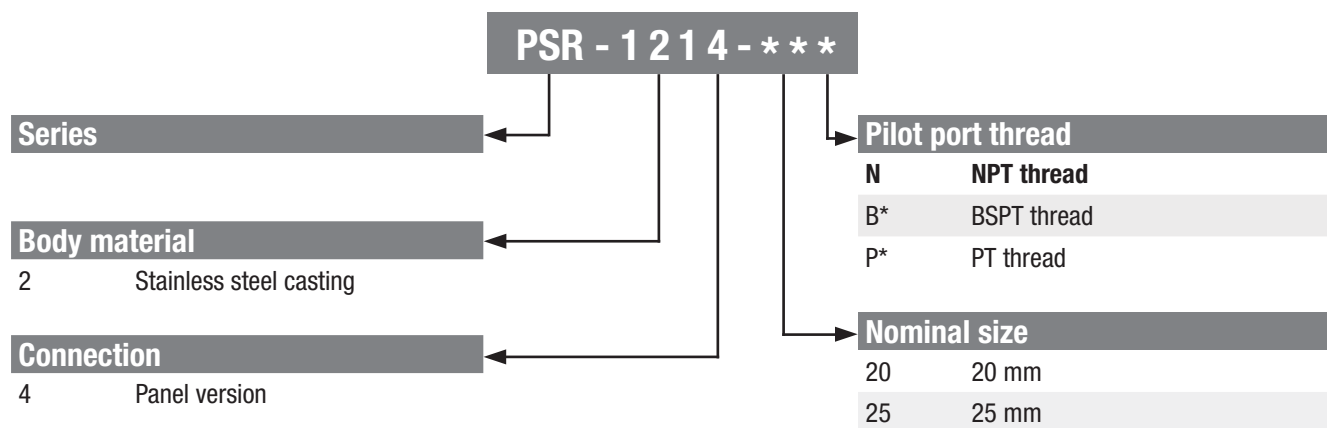
* please complete: N = NPT thread, P = PT thread, B = BSPT thread

These valves are designed to control the flow of steam, nitrogen and air. They guarantee highly accurate process control. The output pressure can be varied by means of remote setting (pressure reduction of the pilot control air).

Operating pressure	max. 188 psi
Back pressure	max. 84 psi
Pilot pressure	2,9 -1 4,5 psi
Pressure class	300
Temperature range	max. + 401°F
Medium	Steam, Nitrogen, Air
Body material	Stainless steel casting
Stem and seat material	Stainless steel
Packing material	Graphite-reinforced Teflon®
Seal type	Graphite-reinforced Teflon®

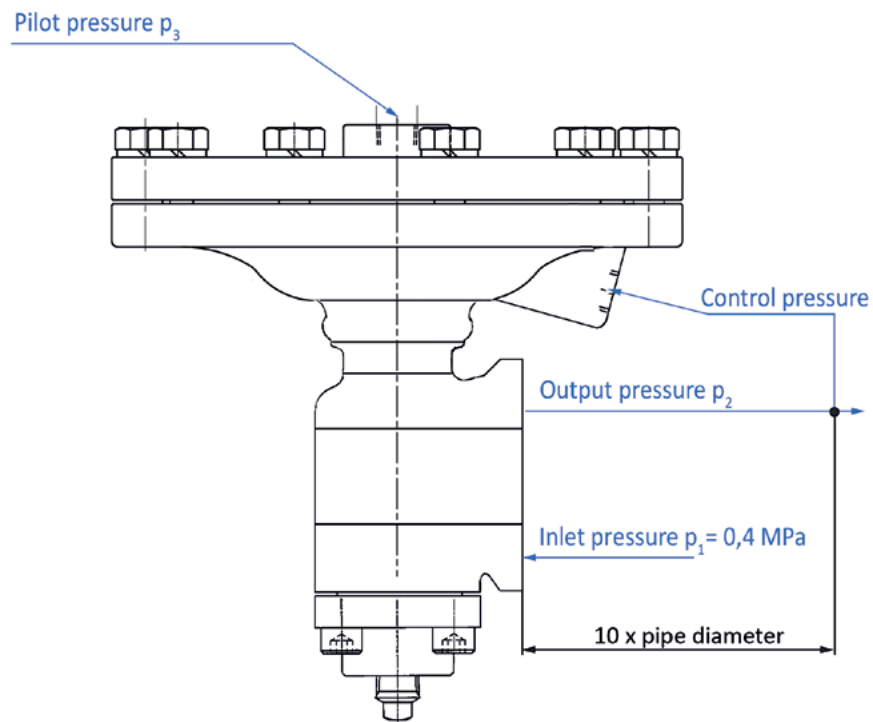
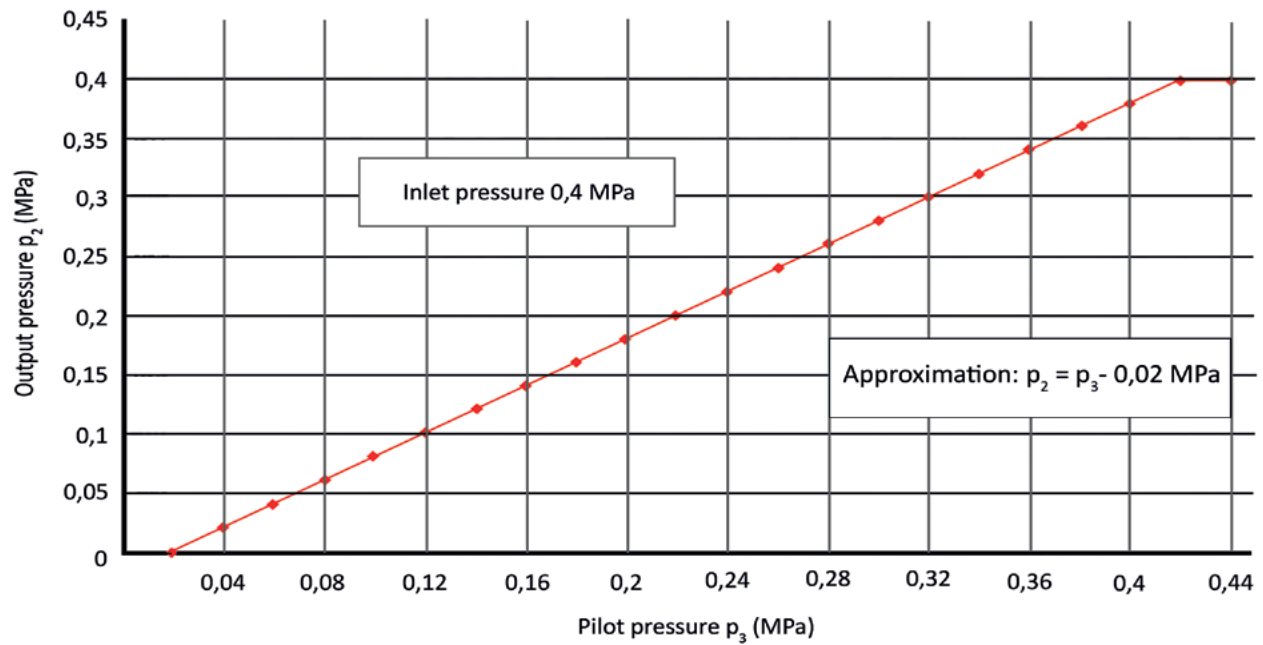


Order Code

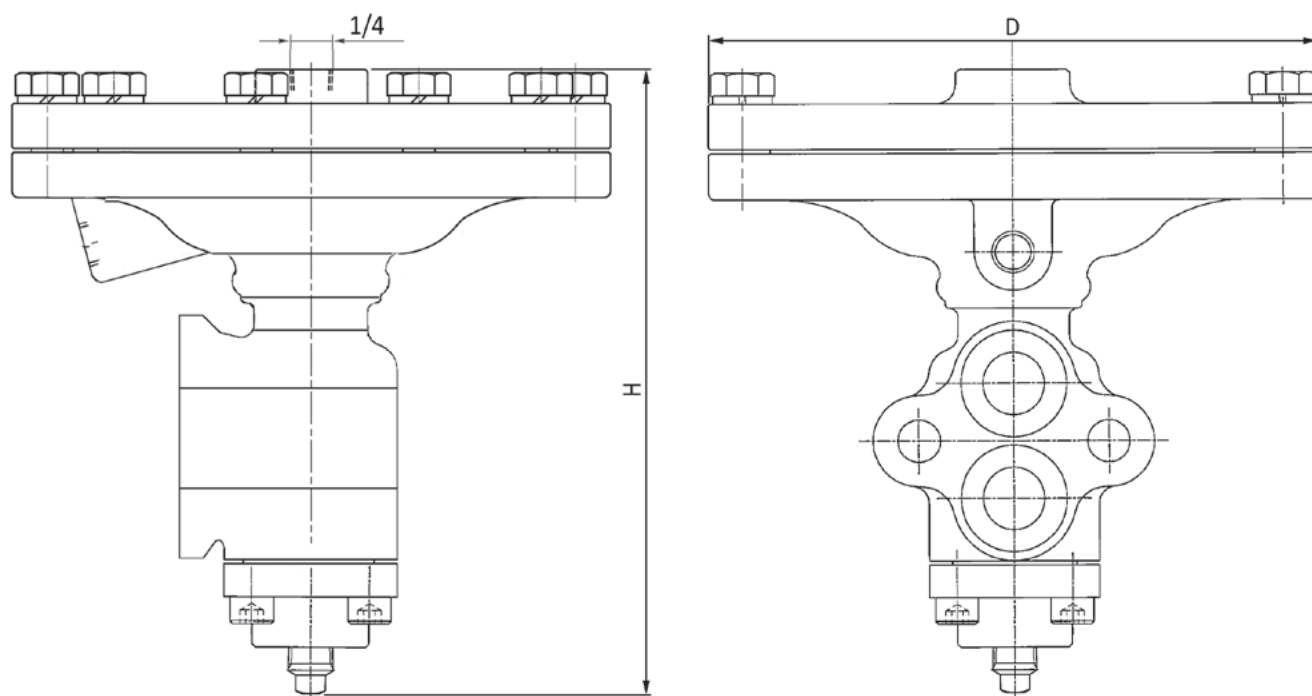


* Available on Request. Not a stock item.

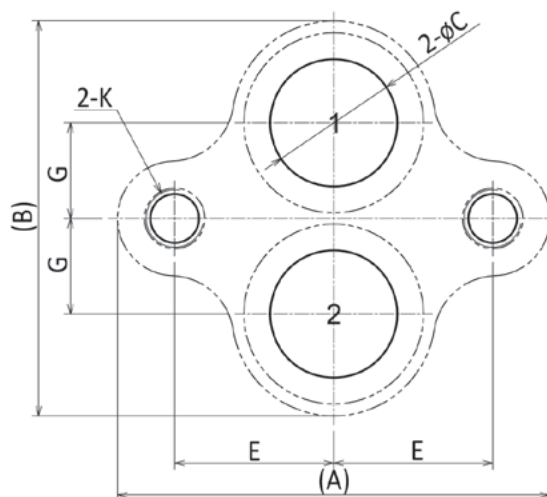
Ratio between pilot pressure and output pressure



Dimensions (mm)



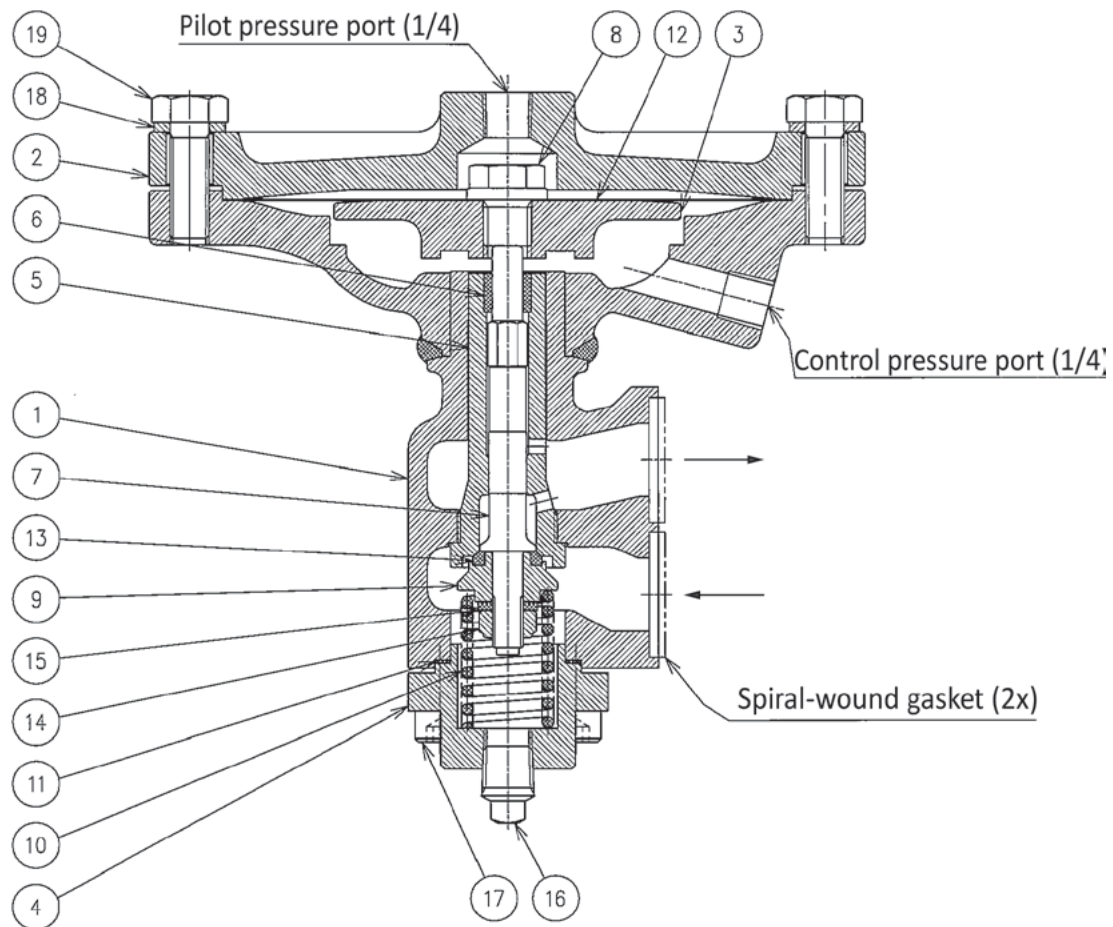
Foot print dimension



Model No.	DN	A	B	C	D	E	G	K	H	Weight (lbs)
PSR-1214-20*	20	86	73	19	186	29	17.5	M12	190	16.8
PSR-1214-25*	25	92	84	23	228	32	20	M12	219	26.0

*Pilot port thread NPT. Valves with BSPT (Rc) according to ISO 7-1 DIN EN 10226/1 or PT thread are available on request. (The dimensions are identical to the standard BSPT version.) Refer to order code on page 58.

Spare parts



No.	Name	Valve	PSR-1214-20*	PSR-1214-25*
1	Body		PR-21120-01	PR-21125-01
2	Cover		R-21120-02*	R-21125-02*
3	Diaphragm plate		R-21120-03	R-21125-03
4	Bottom cover		PR-21120-04	PR-21125-04
5	Center seat		R-21120-05	R-21125-05
6	Guide bushing		R-21120-06	R-21125-06
7	Center rod		R-21120-07	R-21125-07
8	Screw		R-21120-08	R-21125-08
9	Disc adapter		R-21120-09	R-21125-09
10	Disc spring		R-21120-10	R-21125-10
11	Dichtung / Gasket		R-21120-11	R-21125-11
12	Diaphragm (2)		R-21120-12	R-21125-12
13	Disc ring		R-21120-13	R-21125-13
14	U-Nut		R-21120-14	R-21125-14
15	Spring washer		R-21120-15	R-21125-15
16	Plug		R-21120-16	R-21125-16
17	Socket cap screw (4)		C-21120-16	C-21125-16
18	Spring washer (10)		R-21120-19	R-21125-19
19	Hex head screw (10)		R-21120-20	R-21125-20

* please complete: N = NPT thread, P = PT thread, B = BSPT thread

Electrical valve feedback sensor series PF

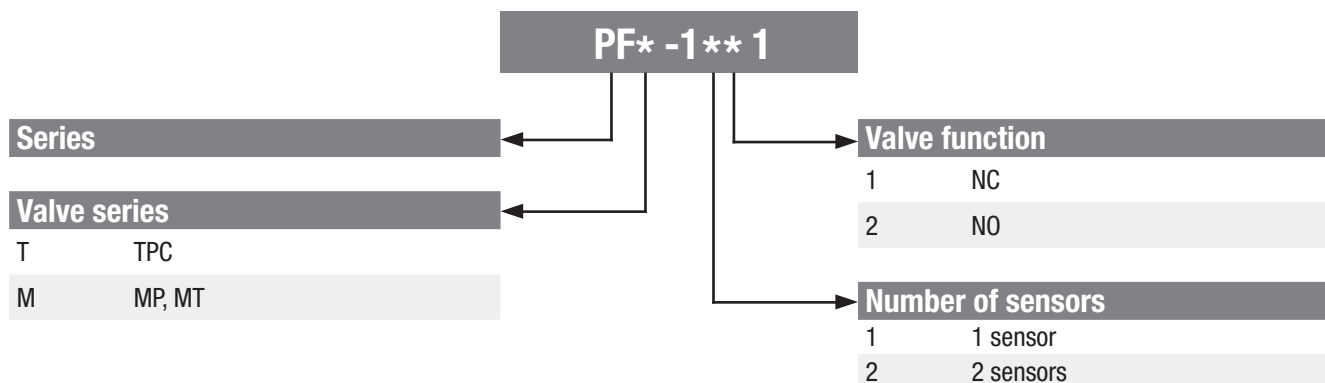
Valve position feedback for all types of ROCKY PISTON VALVES.

Sturdy and robust the cylinder contains contactless magnetic sensors and monitors the valve stem position.

Top and bottom guided for smooth trouble free operation. Easy to retro fit to existing valves.

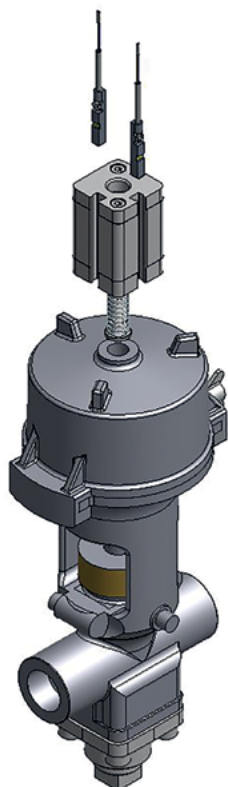


Order Code

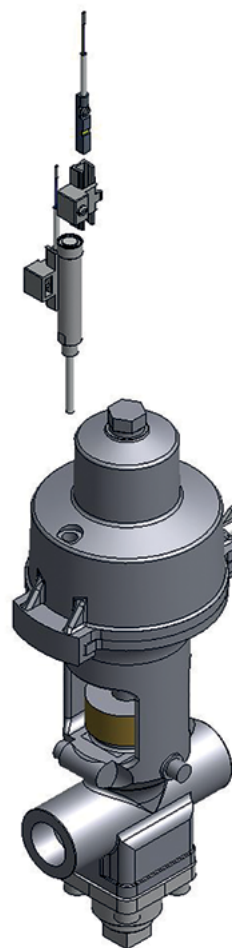


Installation

normally closed



normally open



10

Spiral wound gasket series PP

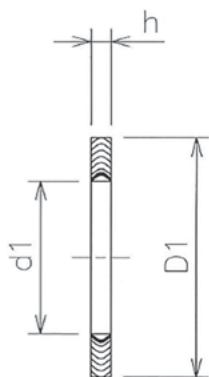
This gasket is made of spiral wound metal band 1.4541 with a filling material between the metal bands. The filling material is graphite. Spiral-wound gaskets are used mainly in high-pressure environments and in critical operating conditions.

Technical data

Operating pressure	max. 2320 psi
Temperature range	- 328°F to + 1022°F



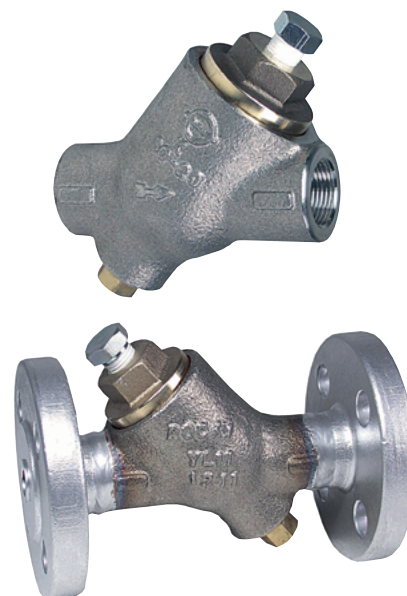
Dimensions (mm)



Model No.	DN	d1	D1	h
PP-15	15	15	25	3.2
PP-20	20	20	33	3.2
PP-25	25	25	39	3.2
PP-32	32	32	49	3.2
PP-40	40	40	57	3.2

These check valves provide accurate and perfect non return of fluid. The pressure drop is very small due to the full bore size.

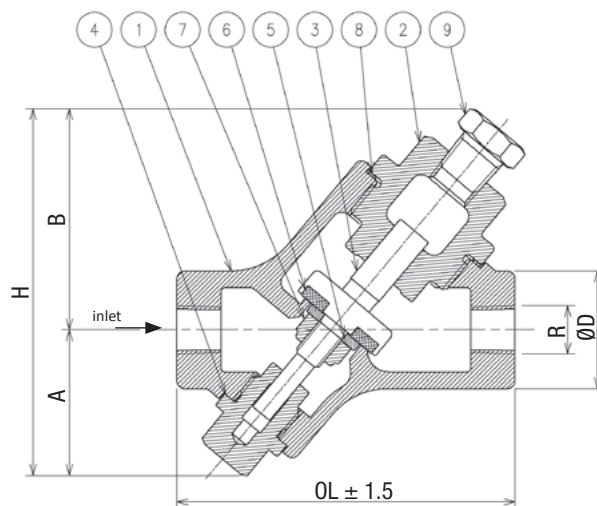
Operating pressure	max. 460 psi min. 1,45 psi
Pressure class	300
Temperature range	max + 419°F
Medium	Steam, Nitrogen, Air, Hot and cold water
Body material	Stainless steel casting
Mounting	horizontal



Order Code

YL - 1 2 1 * - * * * *			
Series		Flange material	Y stainless steel
Version		Type of thread / flange	
2 2/2-way		N NPT thread	
Function		B* BSPT thread	
1 Normally closed (NC)		P* PT thread	
Connection		A ANSI flange	
1 Thread		D* DIN flange	
2 Flange version		J* JIS flange	
Nominal size		* Available on Request. Not a stock item.	
15 15 mm			
20 20 mm			
25 25 mm			
32 32 mm			
40 40 mm			

Dimensions (mm)



YL valve, tapped, 2/2-way, NC

Model No.	DN	R	OL	A	B	H	D	Weight (lbs)
YL-1211-15N*	15	1/2"	92	39	60	99	32	2.0
YL-1211-20N*	20	3/4"	111	46	68	114	38	3.3
YL-1211-25N*	25	1"	132	49	73	122	44	4.6
YL-1211-32N*	32	1 1/4"	145	56	82	138	55	6.2
YL-1211-40N*	40	1 1/2"	152	60	90	150	62	7.7

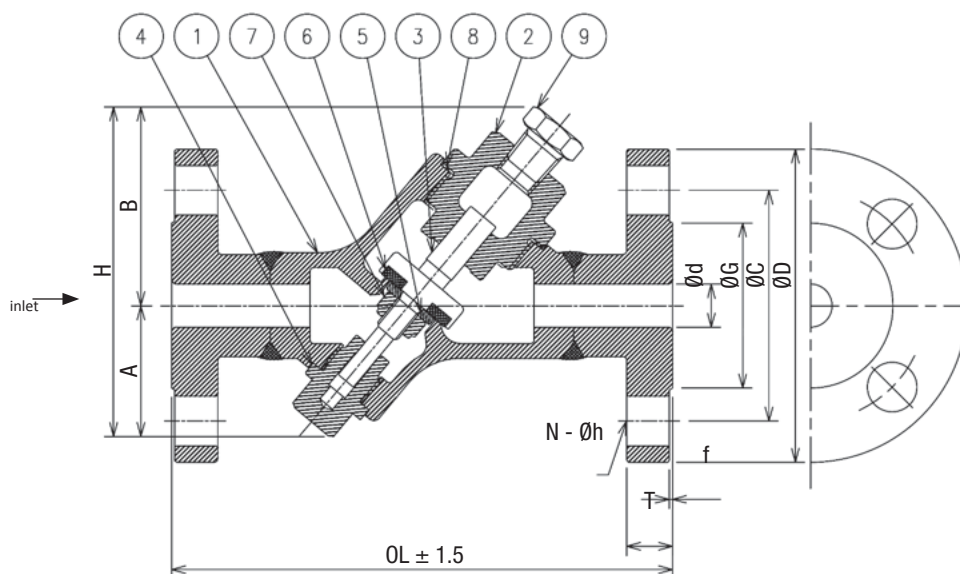
* Also available as version B with BSPT thread or P with PT thread. (on request, not a stock item)

Spare parts

No.	Name	Valve	YL-1211-15*	YL-1211-20*	YL-1211-25*	YL-1211-32*	YL-1211-40*
1	Body		Y-21115 - 01 *	Y-21120 - 01 *	Y-21125 - 01 *	Y-21132 - 01 *	Y-21140 - 01 *
2	Guide cover		Y-21115 - 02	Y-21120 - 02	Y-21125 - 02	Y-21132 - 02	Y-21140 - 02
3	Stem		Y-21115 - 03	Y-21120 - 03	Y-21125 - 03	Y-21132 - 03	Y-21140 - 03
4	Guide plug		Y-21115 - 04	Y-21120 - 04	Y-21125 - 04	Y-21132 - 04	Y-21140 - 04
5	Guide washer		Y-21115 - 05	Y-21120 - 05	Y-21125 - 05	Y-21132 - 05	Y-21140 - 05
6	Gasket		Y-21115 - 06	Y-21120 - 06	Y-21125 - 06	Y-21132 - 06	Y-21140 - 06
7	U-nut		Y-21115 - 07	Y-21120 - 07	Y-21125 - 07	Y-21132 - 07	Y-21140 - 07
8	Gasket		Y-21115 - 08	Y-21120 - 08	Y-21125 - 08	Y-21132 - 08	Y-21140 - 08
9	Plug		Y-21115 - 09	Y-21120 - 09	Y-21125 - 09	Y-21132 - 09	Y-21140 - 09

* please complete: N = NPT thread, B = BSPT thread, P = PT thread

Dimensions (mm)



YL valve, with flange, 2/2-way, NC

Model No.	DN	d	OL	A	B	H	Weight (lbs)
YL-1212-15A*	15	13	137	38	54	92	5.3
YL-1212-20A*	20	19	177	44	65	109	7.5
YL-1212-25A*	25	25	195	49	69	118	11.0
YL-1212-32A*	32	32	218	56	79	135	14.6
YL-1212-40A*	40	40	243	60	90	150	17.0

* Also available as version D with DIN flange or J with JIS flange. (on request, not a stock item)

Dimensions for ANSI flange

DN	D	C	G	T	f	N	h
15	95	66.5	35	14.5	1.6	4	15
20	117	82.5	43	16.0	1.6	4	19
25	124	89.0	51	18.0	1.6	4	19
32	133	98.5	63.5	19.1	1.6	4	19
40	156	114.5	73	21.0	1.6	4	22

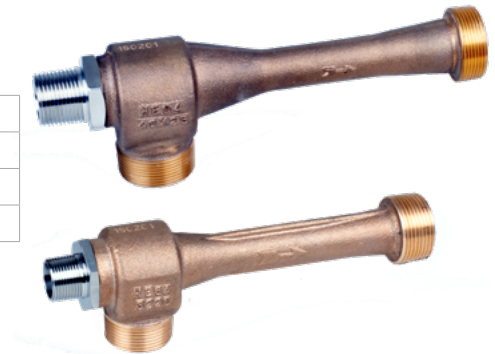
Spare parts

No.	Name	Valve	YL-1211-15*	YL-1211-20*	YL-1211-25*	YL-1211-32*	YL-1211-40*
1	Body		Y-21115 - 01 *	Y-21120 - 01 *	Y-21125 - 01 *	Y-21132 - 01 *	Y-21140 - 01 *
2	Guide cover		Y-21115 - 02	Y-21120 - 02	Y-21125 - 02	Y-21132 - 02	Y-21140 - 02
3	Stem		Y-21115 - 03	Y-21120 - 03	Y-21125 - 03	Y-21132 - 03	Y-21140 - 03
4	Guide plug		Y-21115 - 04	Y-21120 - 04	Y-21125 - 04	Y-21132 - 04	Y-21140 - 04
5	Guide washer		Y-21115 - 05	Y-21120 - 05	Y-21125 - 05	Y-21132 - 05	Y-21140 - 05
6	Gasket		Y-21115 - 06	Y-21120 - 06	Y-21125 - 06	Y-21132 - 06	Y-21140 - 06
7	U-nut		Y-21115 - 07	Y-21120 - 07	Y-21125 - 07	Y-21132 - 07	Y-21140 - 07
8	Gasket		Y-21115 - 08	Y-21120 - 08	Y-21125 - 08	Y-21132 - 08	Y-21140 - 08
9	Plug		Y-21115 - 09	Y-21120 - 09	Y-21125 - 09	Y-21132 - 09	Y-21140 - 09

* please complete: A = ANSI flange, D = DIN flange, J = JIS flange

These ejectors also known as eductors, jet pumps, siphons were designed to use a motive medium (in most cases water) to create a vacuum and evacuate steam from a tire press.

Operating pressure	max. 400 psi
Vacuum	max. 33.1 ft H ₂ O
Body material	Cast bronze
Nozzle material	Stainless steel



Order Code

HE - 1 3 3 1 - * * - * * N

Series

Port thread

N NPT thread

Nominal size (E)

32 32 mm

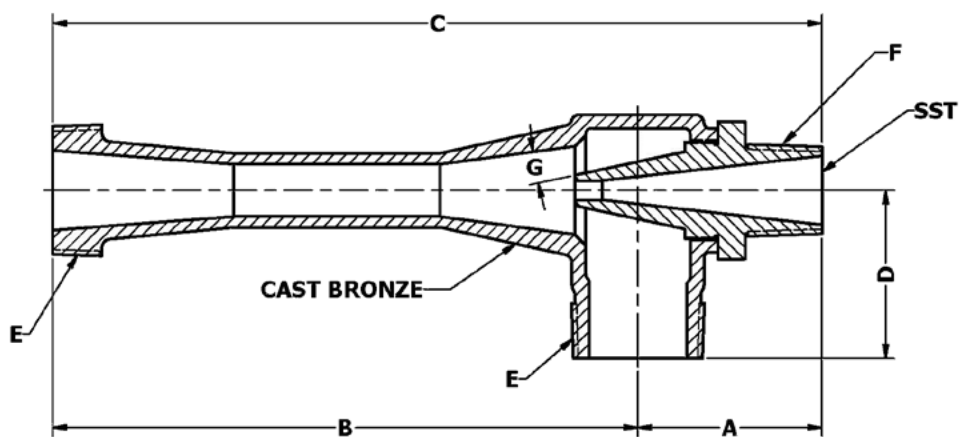
40 40 mm

Nominal size (F)

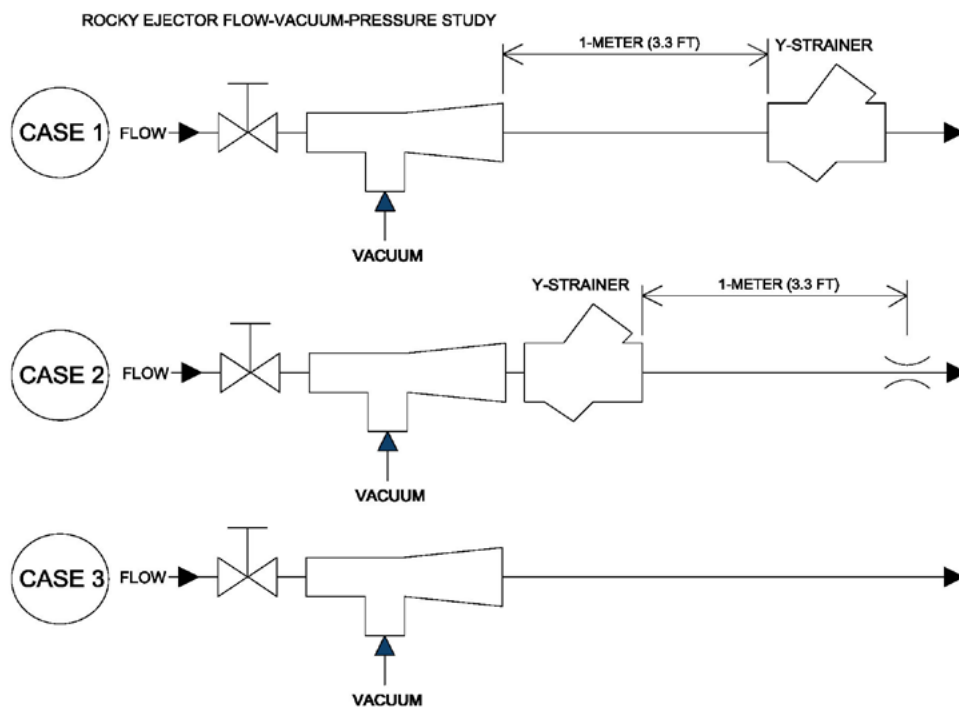
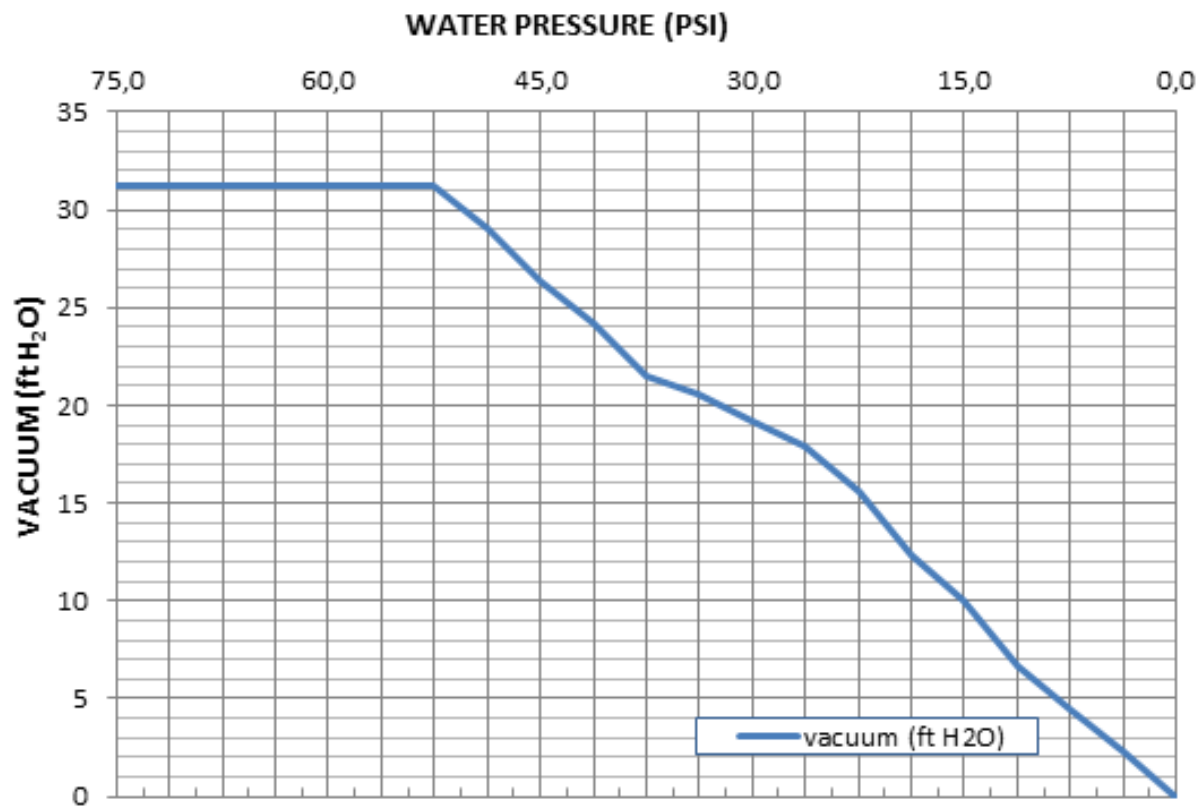
20 20 mm

25 25 mm

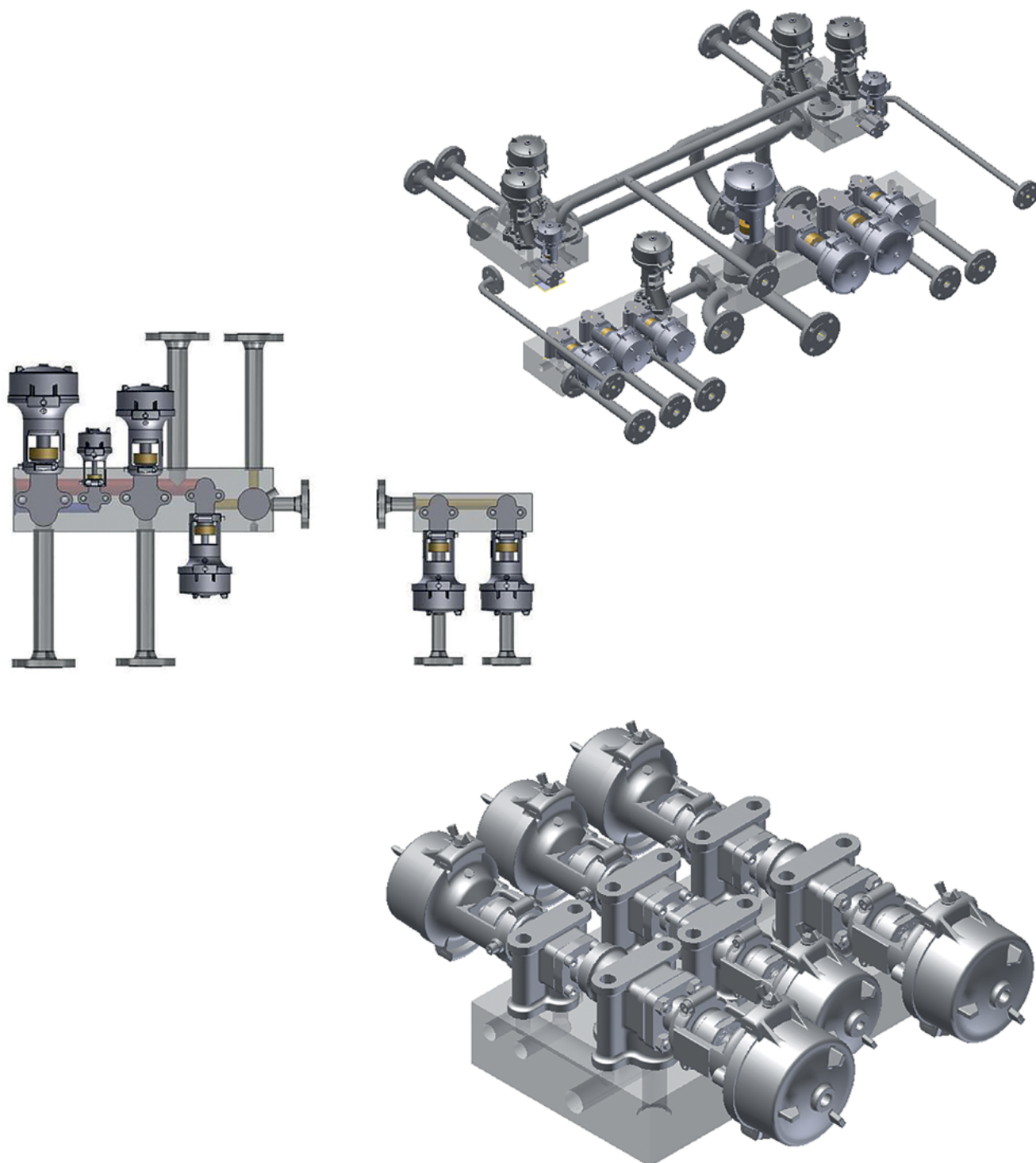
Dimensions (mm)



Model No.	A	B	C	D	E	F	G	Weight (lbs)
HE-1331-32-20N	56	180	236	46	1 1/4"	3/4"	8.5	2.8
HE-1331-40-25N	68.5	211.5	280	61	1 1/2"	1"	10.1	4.1



AIRTEC has a well-established reputation for its innovative and reliable customized product solutions. Many of our customers are already using this mutually focused partnership to produce original products that drive forward their business.





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